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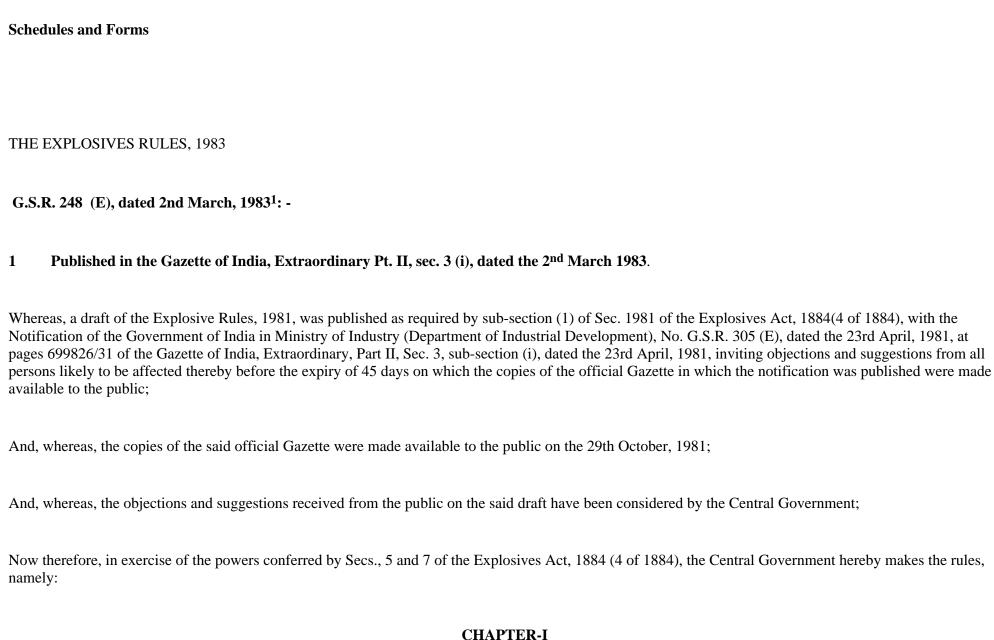
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CHAPTEK-I

PRELIMINARY

1. Short title and commencement: -

(1)	These rules may be called the Explosives Rules, 1983.
(2)	They shall come into force on the date of their publication in the official Gazette.
2.	Definitions: -In these rules unless the context otherwise requires, -
(1)	"Act" means the Explosives Act, 1884 (4 of 1884);
(2) offici	"Authorised explosives" means an explosive included in a list of authorised explosives published by the Central Government from time to i time in the fal Gazette;
(3)	"Chief Controller" means Chief Controller of Explosives;
(4) the jo	"Competent person" means a person recognised by the Chief Controller to be a competent person or a person who holds a certificate of Competency in bb in respect of which competency is required from an institution recognised by the Chief Controller in this be-half;
(5) India	"Conservator" includes any person acting under the authority of the officer or body of persons appointed to be conservator of a port under Sec. 7 of the n Ports Act, 1908 (15 of 1908);
(6) Explo	"Controller" includes Joint Chief Controller of Explosives, Deputy Chief Controller of Explosives ¹ [Controller of Explosives and Deputy Controller of Explosives]
1.	Subs. by G.S.R. 41 (E), dated 15 th January, 1988 (w.e.f. 18th January, 1988), for the words "and Controller of Explosives".
(7)	"Detonator" means a small tube of aluminium or copper or other materials approved by the Chief Controller-
(a)	One end of which is closed and the other-

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(i)	Left open for the insertion of safety fuse for the purpose of initiating explosion within the tube; or
(ii)	Fitted with wires or other device for that purpose and sealed;
(b) simila	Which is loaded with a charge of initiating explosive, the charge being so designed as to produce an explosion that would communicate the other tube rly constructed and charged;
² [(7-A	"District Authority" means-
2.	Ins. by G.S.R. 41 (E) dated 15th January 1988 (w.e.f. 18th January 1988).
(a)	In towns having a Commissioner of Police, the Commissioner or a Deputy Commissioner of Police;
(b)	In any other place, the District Magistrate;]
(8)	"Form" means a form specified in Sch. V;
(9) round	"Licensable capacity" in relation to a magazine means ³ [the] capacity of the magazine reckoned on the basis of the floor area and required safety zone all such magazine;
3	Subs by G.S.R. 41 (E), dated I5th January 1988 (w.e.f. 18 th January 1988), for the words or 2/3rd the full.
(10)	"Licensed factory" means a factory in respect of which a licence issued under these rules is in force;
(11)	"Licensed magazine" means a magazine in respect of which a licence, issued under these rules is in force;

(12)	'Licensed store house' means a storehouse in respect of which a licence, issued under these rules is in force;
	"Magazine" means a building specially constructed in accordance with a design approved by the Chief Controller and intended for storage of more than g. of explosives.
4.	Subs. by ibid for figures "2.5".
(14) mines	"Permitted explosives," means authorised explosives which are permitted by the ⁵ [Director General of Mines Safety] to be used in underground coal
5.	Subs. by ibid. for the words "Director General Mines Safety":.
(15)	"Prohibited explosives" means explosives which are prohibited by the Central Government under Sec. 6 of the Act;
(16)	"Protected works" includes
(a) * *],	Building in which persons dwell, work or assemble, college, school, hospital, theatre, cinema house, factory, place of storage of hazardous substances ⁶ [*
6.	The words "dams and reservoirs" omitted by ibid.
(b)	Any public road for railway line or navigable waterways; 7[or dams and reservoirs]

7.	Ins. by ibid.
⁸ [(c) therev	overhead trunk high tension power lines; but does not include footpath, cart tracks not in regular use, agricultural wells and pump sets connected vith;]
8.	Subs. by G.S.R. 41 (E) dated 15 th January 1988 (w.e.f. 18 th January 1988).
	"Safety cartridge" means a cartridge for small arms having a diameter not exceeding 2.5 cms., the case of which can be extracted for the small arms after and which is so closed as to prevent any explosion in one cartridge being communicated to other cartridges;
and w	"Safety fuse" means a fuse or igniting charges of other explosives which burn and does not explode and which does not contain its own means of ignition thich is of such strength and construction and contains an explosive in such quantity that the burning of such fuse would not communicate laterally with like fuse.
	"Safety zone" means the zone necessary for the maintenance of the distances required under the conditions of a licence to be kept clear between any ed factory shed, magazines or store-house and protected works;
(20)	"Schedule" means a schedule annexed to these rules;
(21)	"Small arm nitro-compound" means nitro-compound adapted and intended exclusively for use in cartridges of small arms;
(22)	"Storehouse" means a building other than a magazine for storage of certain types of explosives;
(23)	"Testing officer" means such officer as the Central Government may appoint in this behalf;
(24) licens	"Transport" means movement of explosives from one place to another by land, sea or air in India but does not include movement of explosives within a ed factory;
(25)	"Transfer" ¹ [***] with its grammatical variations and cognate, expressions includes letting on hire, lending, giving and parting with possession;

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1.	The words "means" omitted by G.S.R. 41 (E), dated 15th January 1988 (w.e.f. 18th January, 1988).
(26)	"Van" means a mechanically propelled vehicle or transport of explosive by land.
3.	Classification of explosives
(1)	For the purpose of these rules explosives shall be classified in the manner specified in Sch. 1.
(2) classe	If any explosive falls "within the limits of more than one class as defined in Sch. I," if shall be deemed to belong exclusively to the last in number of such s.
4.	Safety distance categories of explosives: -
(1)	Explosives are divided into four categories according to the risks, which they present when initiated, namely
(i)	Category X - Those explosives, which have a fire or a slight explosion, risk or both but the effect of which will be local.
(ii)	Category Y - Those explosives, which have a mass fire risk or a moderate explosion, risk, but not the risk of mass explosion.
(iii)	Category Z - Those explosives, which have a mass explosion, risk and major missile effect.
(iv)	Category ZZ - Those explosives, which have mass explosion, risk and minor missile effect.
(2) Contro	If any question arises as to whether any explosive belongs to Category X, Category Y, Category Z or Category ZZ, the matter shall be referred to Chief oller whose decision shall be final.

CHAPTER II

General Provisions

5. **Prohibition of unauthorized explosives:** - No person shall import, export, transport, manufacture, possess, use or sell any explosives which is not an authorised explosive: Provided that nothing in this rule shall apply to the manufacture and possession for test and trial purposes and not for sale of a new explosive composition under development at a place specially approved for the purpose by the Chief Controller in a licensed factory. Procedure for authorisation of explosives. -6. Any person desirous of including a explosive in the list of authorised explosive shall apply by submitting an application therefor to the Chief Controller. (1)The application submitted in accordance with sub-rule (1) shall be in writing and accompanied by following particulars: (2)The nature and composition of the explosive; (a) The limiting percentage of each ingredient of the explosive; (b) Any substitute or substitutes for any specified ingredient; (c) In the case of new explosive to be manufactured in India, the process by which it is proposed to carry out its manufacture; (d) Where an explosive is enclosed in a case or other contrivance, the dimensions of the case or other contrivance, the quantity, nature and brand of explosive contained therein, the method of function and performance characteristics of the explosive and instructions governing the use of the case or other contrivance; (f) The box, wrapping or other container in which the explosive will be handled, used or displayed or otherwise distributed including the markings thereon;

and

(g)	The package in which the explosive will be transported and stored including the markings thereon.
	When, in the opinion of the Chief Controller, an explosive in respect of which an application is made may properly be considered for authorisation, the Controller shall instruct the applicant as to the samples required and the same manner of forwarding the same to him or to any other authority specified by nief Controller in this behalf.
(4)	No person shall send a sample of an explosive unless such person has first received the instructions referred to under sub-rule (3).
(5)	No person shall send a sample of an explosive otherwise than in accordance with instructions given by the Chief Controller under sub-rule (3).
(6) nature	(i) Samples forwarded under sub-rule (3) shall be subjected to such of the tests enumerated in Cl. (ii) of this rule as are necessary having regard to the and type of explosive submitted to ensure that the explosive is capable of being safely manufactured, handled, stored, transported and used.
(ii)	The tests referred to in Cl. (i) pertain to-
(a) behav	Physical properties including consistency, reaction, tendency to absorb moisture, segregation in transport or otherwise of the constituents, exudation, iour at low temperatures, specific gravity and such other physical properties as may be considered necessary;
(b) in its	Chemical composition- determination of the percentage composition of the ingredients forming the explosive, and the quality of the ingredients employed manufacture;
(c) in sen	Stability-determination of stability after subjection to such varying environmental conditions as would tend to produce spontaneous ignition or variation sitiveness of an explosive;
(d)	Ignition characteristics-ignition point, behaviour on ignition, liability to spontaneous ignition, behaviour on ignition in bulk;
(e)	Mechanical sensitiveness- determination of sensitiveness to friction and impact-,
(f)	Air gap sensitivity and transmission of detonation;

(g)	Velocity o detonating;
(h)	Determination of strength;
(i)	Composition of gases evolved upon explosion;
(j)	Such other tests as the Chief Controller may specify.
(7) author	An explosive tested in accordance with sub-rule (6) shall be declared by the Central Government on recommendation of Chief Controller to be an rised explosive if, it is satisfied that such an explosive can be safely manufactured, handled, stored, transported and used.
(8) author	Authorisation issued by the Central Government under sub-rule (7) in respect of any imported explosive shall be valid for one year from the date of risation, provided the foreign manufacturer certifies that there has been no change in the composition of any other characteristics of the explosives.
	The Chief Controller may at any time subject any explosive to the tests enumerated in sub-rule (6). As a result of the tests or otherwise if the Chief oller is satisfied that the explosive is no longer safe for manufacture, handling, storage, transport or use, may recommend deletion of such explosive from thorised list.
(10)	The Chief Controller, on completion of the testing of an explosive, in pursuance of sub-rule (6) shall advise the Central Government in writing, -
(a)	Whether or not the explosive should be declared to be an authorised explosive; and
(b)	Where the explosive is declared to be an authorised explosive, the class including any division and sub-division within which the explosive falls.
(11)	(i) The Chief Controller shall maintain a list of authorised explosive showing
(a)	The brand or trade name of the explosive;

- The name and address of the manufacturers; (b) The class including any division and sub-divisions thereof, within which each explosive falls; and (c) (d) The safety distance category and the corresponding United Nation's classification number and division. A list of authorised explosives that, by licence or permit, are authorised to be manufactured, in, or imported into India shall be published by the Central Government from time to time. (12) No alteration in the composition, limiting percentage of ingredients or substitute ingredients the process of manufacture, the description and construction of the case or the contrivance as declared in accordance with Cls., (a), (b), (c), (d) and (e) of the sub-rule (2) shall be carried out without prior approval of the Central Government: Provided that the Chief Controller may order fresh test to be carried out if the proposed alteration in the percentage, composition, nature of ingredients, process of manufacture or construction of the case or contrivance of the explosives are likely to change the results of the original test prescribed in this rule. Restriction on delivery and despatch of explosives. -7. No person shall deliver or despatch any explosives to any one other than a person who-(1) is the holder of a licence to possess the explosives or the agent of a holder of such a licence duly authorised by him in writing in this behalf; or (a) is entitled under these rules to possess the explosives without a licence. (b) The explosives so delivered or despatched shall in no case exceed the quantity which the person to whom they are delivered or despatched is authorised to possess with or without a licence under these rules. (3) (i)No person shall receive explosives from any person other than the holder of a licence granted under these rules.
- ii) No person shall receive from or transfer explosives to any person for a temporary storage or safe custody in a licensed premises unless prior approval is file:///D|/Created by Skorydov/EXPLOSIVE%20RULES%201983.htm (21 of 242) [7/20/2001 1:09:18 PM]

obtai	obtained from the Chief Controller.	
3.	Packing of explosives	
(1)	No person shall import, tender for transport, cause to be transported, possess or sell any explosives unless ¹ [****]	
l .	The words "it is packed" omitted by G.S.R. 41 (E), dated 15th January, 1988) (w.e.f. 18th January, 1988).	
(a) ²	[It is packed in the manner laid down in Schedule II].	
2.	Subs. by ibid.	
(b) estec	A sample of the container or package for each explosive has been and approved by the Chief Controller;	
(c)	The container or package is marked in accordance with rule 9 of these rules :	
Provi	ded that nothing in this rule shall apply to explosives in the process of manufacture.	
(2) such	An explosive which is not an authorised explosive but which is required to be transported for purposes of test in connection therewith shall be packed in manner as may be directed by the Chief Controller with reference to such explosive.	
).	Marking of packages	
(1)	The outer package shall be marked in conspicuous indelible characters by means of a stamping, embossing or painting with-	
a)	The word "Explosives";	

(b)	The name of the authorised explosive;	
(c)	The number of the class and the division to which it belongs;	
(d)	The safety distance category of explosive;	
(e)	The name of the manufacturer; the name of the consignor and consignee; and	
(g)	The net weight of explosive	
Provided that in the case of safety fuse or fireworks, the word "Explosive" and the number of the Class and division may be omitted.		
(2) of Cla	In the case of explosives used for charging for blasting, viz. explosives of Class 2 or such other explosives of Class 3 Division 1 or such other explosives ass 4 which contain liquid nitro-compound explosive, the date of manufacture and batch number shall be added.	
(3)	In the case of explosives of Class 2 and Class 3, each of the cartridges containing explosives shall be printed or embossed legibly on it with-	
(a)	The word "Explosive";	
(b)	The name of explosives;	
(c)	Weight of explosive;	
(d)	Diameter of the cartridge;	
(e)	Name of manufacturer; and	

(f)	In case of permitted explosive, the letter 'P'.
(4) where	In the case of fire-works, a caution or warning indicating the-method of firing and precautions to be taken shall be printed on each piece of fireworks and e adequate space is not available -on the fire-works, such caution or warning may be printed on a separate label and inserted in the smallest packet or n.
10. are pa	Weight of explosives. - The weight of explosives when referred to in these rules shall not include the weight of the packing box in which the explosives acked:
Provided that the case of explosives of the 6 th (Ammunition) Class or 7 th (Fireworks) Class the weight shall be deemed to be the weight of the completed article inclusive of the case of contrivance in which the explosive is contained.	
11. Competent person to be in-charge of operations Every person holding or acting under a licence granted under these rules shall, whenever explosives are loaded, unloaded or handled, depute a competent person experienced in the handling of explosive to be present at and to conduct the operations in accordance with these rules.	
12	Precautions to be observed in handling explosives
(1) explo	The floor of any place or any carriage or vessel in which any explosive is or is to be laid and the ground gangway, decks and other places over which the sive is to be conveyed during loading or unloading shall be-
(i)	Carefully examined to ensure that there is nothing thereon in contravention of these rules or likely to endanger the safety of the consignment; and
(ii)	Thoroughly cleaned and swept before and after use.
(2) hand	The packages containing the explosives shall not be thrown or dropped down or to hand and carefully deposited and stored.
(3)	Where a package is to be slung, due precaution shall be taken to slung it in such a manager as effectively to prevent the possibility of a fall.

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(4)	After the handling of explosives has commenced, the operations shall proceed with due diligence and without necessary stoppage.
13. sunri	Restriction on handling of explosives after sunset: - No person shall handle or cause to be handled any explosive between the hours of sunset and se:
Prov	ided that nothing in this rule shall apply to handling of explosives during dark hours in proper illumination is provided in the area and the place is guarded.
	Prohibition of smoking, fires, slights and dangerous substances. No person shall smoke, and no fires, lights or articles or substances of a flammable or liable to spontaneous ignition, or to cause or communicate fire or explosion, such as, acids, petroleum, carbide of calcium, compressed gases or such hazardous substances, shall be allowed-
(a)	At any time within 15 metres from a place where an explosive is stored; or
(b)	At any place where an explosive is handled, during transport one hour before and during such handling:
Prov	ided that nothing in this rule shall apply to the use on a ship of-
(i)	An engine room fire, if such fire has been previously carefully banked up, or
(ii) Port	Any artificial light or ship's signal lights or of a type approved in-writing by the Chief Controller in areas outside port limits and by the Conservator of the within port limits.
15.	Prohibition of matches, etc: - No person on, in or near any place where explosives are stored or handled or any carriage conveying explosives
(a)	Have in his possession any matches, fuses or other appliances f producing ignition or explosion or any knives or other articles made of iron or steel; or

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(b) the fo	(b) Wear boots or shoes with iron nails or shod or strengthened with iron, unless such boots or shoes are covered with leather, rubber, felt other material, in the form of overshoes or otherwise.		
16. carefu	Split explosive to be destroyed. - If any explosives escapes from the package, which it is contained, or is split, such explosive shall immediately be ally collected and destroyed as provided in these rules.		
17.	Employment of children, intoxicated persons and certain of he persons No person shall employ, allow or engage a person-		
(a)	Who has not completed the age of 18 years; or		
(b)	Who is in a state of intoxication; or		
(c)	Who is of unsound mind		
For manufacture, storage, sale, loading, unloading or transport of explosives o to enter any premises licensed under these rules.			
18.	Precautions against danger from water or exposure to the sun or heat		
(1) contac	In the case of any explosive which is liable to be dangerous affected by water, due precautions shall at all times be taken to prevent water from coming in ct with such explosive.		
(2)	Packages containing explosives shall not be allowed to remain in the sun or exposed to excessive heat:		
	Provided that nothing in sub-rule (2) shall apply to sun drying of gunpowder or fireworks or drying of explosives in a licensed factory- under controlled conditions.		
19.	Special precautions against accident and the exclusion o unauthorized persons.		

Import and Export		
CHAPTER III		
(b) Any explosive that is not authorised explosives or any explosive, which is deteriorated or is in a damaged co	ondition.	
(a) Nitro-glycerine or Ethylene glycol nitrate or any explosives of Class 5 in any vehicle in any quantity, except purpose of manufacture of explosives;	t within the licensed factory solely for the	
20. Restriction on transport of certain types of explosives: Notwithstanding anything contained in these rules no person shall transport without approval of Chief Controller-		
(d) Prevent any other person from committing any such act as is prohibited under sub-rule (1).		
(c) Prevent unauthorized person from having access to the explosives;		
(b) Observe all due precautions for prevention of thefts and of accidents by fire or explosion;		
(a) Comply with provisions of these rules and the conditions of any licence relating thereto;		
(2) Every person possessing explosives and every person in charge of or engaged in the import, export, manufactural shall at all times-	cture, sale, transport or handling of explosives	
Provided that nothing in this sub-rule shall apply to an act which is necessary for the purpose of the manufacture, storage or handling during transport of any explosive or any article present therein.		
(1) No person shall commit or attempt to commit an act, which may tend to cause a fire or explosion in or about manufactured, stored or transported.	at any place where a explosive is	

21.	Restriction on import or export	
(1)	No person shall import or export any explosive except under and in accordance with the conditions of a licence granted under these rules.	
(2)	No licence shall be granted for import or export of any explosives, unless-	
(a)	The explosive is an authorised explosive;	
(b) in Scl	The explosive, If of the 3rd (Nitro-compound class) or 4th (Chlorate mixture) is certified in Form I by the testing officer to have passed the tests specified in II; and	
(c) in wr	The explosive is certified to have passed such analysis or examination, if any, as the Chief Controller or the Customs Collector at his discretion by order ting, may require in order determining its composition or condition.	
(3) class	No person shall be granted an import or export licence unless he is the holder of a licence for possession in a magazine or a store-house authorised for the and quantity of explosives intended to be imported or exported.	
(4) Notwithstanding anything contained in sub-rule (3) the explosives quantities exceeding the licensed capacity indicated in the licence may be imported with prior permission of the Chief Controller provided adequate advance arrangements are made by the importer to distribute directly from the port of import, the explosives to the other licensed magazine or licensed store-houses.		
PART II		
Import or Export by Sea		
22.	Import or export by sea	
(1) Visak	No explosive shall be imported or exported by sea except at the ports of Bombay, Cochin, Calcutta at Diamond Harbour, Madras, Tuticorin or hapatnam:	

Provi	ded that the Chief Controller may specify exports only of explosives in such quantities as, may be done at the ports of Kandla and Mormugao.
	The quantities of explosives, manner of handling during discharge from or loading during discharge from or loading into a ship shall be carried out in dance with the provisions of rules regulating the handling of explosives at the ports of Bombay, Calcutta and Madras issued under the Act and respective rules and bye-laws.
23.	Declaration by importer. - A person holding an import licence granted under these rules shall furnish a declaration-
(a)	In Form 14 to the Chief Controller as soon as ship carrying explosives sails from the port of loading;
(b)	In Form 15 as soon as any shipment of explosives is cleared from the port of import.
24.	Declaration by master of ship or by the ship's agents
(1) arriva	The master of every ship carrying explosives or the agent for such ship shall give the Conservator of the port not less than 48 hours notice of its intended at the port.
(2)	The master of every ship carrying explosives shall deliver to the pilot before entering any port a written declaration in Form 2 under his signature:
	ded that if in anticipation of a ship's arrival the agent for such ship delivers to the Conservator of the port a written declaration as aforesaid under his ture, no such declaration need be made by master of the ship.
(3) receiv	Every declaration delivered to a pilot under sub-rule (2) shall be made over by him without delay to the Conservator of the port and all declarations wed by the Conservator of the port shall be forwarded by him, with all convenient despatch to the Customs Collector of the port.
25.	Declaration by exporter or his agent

The exporter or his authorised agent shall give the Conservator of the port not less than 48 hours notice of his intention to bring explosives to port for

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export and shall not bring the explosives to any part of the port without prior permission in writing fro the said officer.

28.	Testing of samples
(2)	In the case of a Nitro-compound or a Chlorate mixture the date and batch number referred to in sub-rule (2) of rule 9 shall also be affixed to the sample.
(1) such (The officer taking a sample of any explosives under rule 26 shall affix to it the name of the ship, the name of the consignee, name of the explosive and other distinguishing marks, as he may think necessary and shall forward it to the testing officer without delay.
27.	Despatch of samples to the testing officer
(3) a safe	If the taking of any samples under sub-rule (1) involves the opening of any case such case shall, before it is opened, be removed to an isolated position a distance from any place where consignments of explosives are stored.
	The master shall deliver to the officer referred to in sub-rule (1), without charge samples of all the explosives of which samples are required to be take that sub-rule. One sample consisting of at least two cartridges shall be drawn from a group of cases having the same batch number and same date of facture. The samples if the sampling officer so required, shall be taken from particular package indicated by him.
	When the master of, or the agent for, a ship has made declaration required by rule 24 such officer as the Customs Collector of the port may authorise in ehalf shall go on board the vessel and obtain samples of all such explosives as is intended to land at the port and are required by or under these rules to be a nalyzed or examined.
26.	Sampling procedure from imported explosives
(b) sea.	A certificate issued by exporter to the effect that the explosives ha been packed and marked in accordance with these rules and are safe for transport by
(a)	Licence granted under these rules for export of explosives question;
(2)	The exporter or his authorised agent shall produce before the Conservator of a port:

(1) Form	The testing officer shall test, analyse or examine, as the case may be, the samples and shall without delay forward to the Customs Collector a certificate in I in duplicate under his signature certifying whether the explosive have been satisfied the prescribed tests analysis or examination.			
(2) the cer	The Customs Collector shall, as soon as practicable, and ordinarily within 24 hours after receipt of the report of the testing officer, forward a copy each of rtificate in Form I to the Chief Controller and the Controller of the area having jurisdiction.			
29.	Permission to land explosive			
	No imported explosive shall be permitted to be landed by the Customs Collector except with the prior permission of the Chief Controller or the, oller duly authorised in this behalf who shall issue such permission if the explosive have satisfied the prescribed test, analysis or examination and after g such other enquiries as considered necessary.			
. ,	If the Customs Collector, after the receiving the permission under sub-rule (1) and the licence for import of such explosive under these rules and after g such further enquiries as he deems necessary, is satisfied that the explosive can lawfully be imported, he shall permit it to be landed.			
(3)	Nothing in this rule shall affect the power of Customs Collector to design the explosive under any other law for the time being in force.			
(4)	The imported explosives shall be removed from the port premises by the importer as expeditiously as possible.			
	PART-III			
Import or Export by land				
30. Gover	Import or export by land. - No licence for import or export of explosives shall be granted without the previous sanction in each case, of the Central rument and under such conditions and restrictions as it may impose in consultation with Chief Controller.			
PART-IV				
Import or Export by Air				

31.	Prohibition of certain explosives
	No explosive shall be imported or exported by air except at the ports of Bombay, Delhi, Calcutta and Madras or any other International airport authorises purpose by the Central Government from time to time.
(2)	Any explosive which is not included in Sch. VI shall not be imported or exported by air.
explosi	A person holding a licence for import or export or explosives by air or his authorised agent shall give a declaration well in advance before bringing the ives into the airport to the officer incharge of the Airport Collector of Customs and the Chief Controller giving full particulars of the explosives intended inported or exported.
(4)	No person shall bring explosives to the airport for export by air without prior consent in writing of the officer in-charge of the airport.
	Proper arrangements shall be made by the importer to take direct delivery of the imported explosives and remove the same as expeditiously as possibly ne airport.
. ,	Explosives meant for export shall be brought to the airport after making proper arrangements and only after the aircraft is ready for loading explosives plosives so brought to the airport shall be loaded directly into the aircraft.
	If for any unforeseen circumstances explosives brought to the airport cannot be removed from the airport or loaded into the aircraft such explosives shall ed in an isolated shed under guard as directed by the officer incharge of the airport and all due precautions against theft, fire or explosion shall be taken.
	CHAPTER-IV
	TRANSPORT
PART	I - General

32. Licence for transport and issues of passes. -

(1) No person shall transport explosives under and in accordance with the conditions of a licence granted under these rules:

Provided that nothing in this sub-rule shall apply to-		
(i) licens	The transport of any explosives within the licensed factory or from the licensed factory to the licensed magazine or store-house situated within the ed factory;	
(ii) impoi	The transport of any explosives imported under a licence in Form 27 from the place of import to the place of destination specified in the licence for t of explosives;	
(iii)	The transport of any explosives for the possession of which no licence is necessary (see rule 114);	
(iv)	The transport by the holder of a licence in Form 23 of any of the explosives covered by his licence in such quantity as he may require for his private use;	
(v)	The transport of safety fuse and fireworks provided the same are not transported with any corrosive or flammable material.	
(2)	Every consignment of explosives transported under licence shall b accompanied by a pass issued by the consignor in Form 16.	
(3)	Such pass shall be attached to the way-bill, invoice or despatch note a the case may be.	
(4)	A copy of every pass issued under sub-rule (2) shall forthwith be sent by the consignor to-	
(i)	The licensing authority who issued the licence or transportation of explosives;	
(ii)	The Controller of Explosives in whose jurisdiction the place from which the consignment is sent is situated;	
(iii)	The Controller of Explosives in whose jurisdiction the place to which the consignment is sent is situated.	

	Restrictions on transportation of different explosives in the same carriage. - Any explosives of 5th (Fulminate) Class or detonator or any other sives of 6th (Ammunition) Class containing its own means of ignition or initiation, or an explosive of 7th (Fireworks) Class shall not be transported in the carriage, or save as provided in rule 49 in the same vessel and shall not be conveyed or handled with any explosives not of the class and division to which engs.
34.	Certificate of safety
` '	Before transporting or tendering for transport an explosive of 3rd (Nitro-compound) Class or of the 4th (Chlorate mixture) Class, the consignor shall to the consignment not a valid certificate in Form I or certified copy thereof granted by testing officer.
(2)	The certificate referred to in sub-rule (1) shall be valid for a period of 12 months from the date on which it was granted:
fresh o	ded that in the case of explosives containing Nitroglycerine which are not used as propellants such certificate shall lapse on the 31st July following and certificate may at the discretion of the railway administration concerned, be demanded for explosives to be transported by rail during the period from 1st to 31st July if the original certificate has been granted earlier than 30th of September preceding.
35. vessel	Transport in passenger carriages and vessels. - Save as otherwise expressly provided in these rules, no explosives shall be transported in any carriage, or aircraft plying for carrying passengers on hire.
36.	Maximum consignments allowed The quantity of explosives transported shall not exceed-
(i)	10 tonnes or half the carrying capacity of a railway wagon whichever is less,
(ii) carriaș	10 tonnes or the maximum carrying capacity of a road van licensed under these rules by a Regional Transport Authority, whichever is less, in any one ge other than a railway wagon:
	led that if the explosives to be transported is of 2nd Class the quantity of explosives shall not exceed 15 tonnes or the maximum carrying capacity of the hichever is less:

iii)	One tonne in any animal-drawn carriage;
iv).	22.5 tonnes in any boat;
v)	Quantity specified in Sch. VI in any one aircraft.
57.	Despatch of explosives to carriers for transport
1)	No person shall despatch any explosives to a carrier other than the railway administration for the purposes of transport.
2)	No person shall despatch any explosive to the railway administration for the purposes of transport unless-
a)	He has given the Station Master a notice in writing
i)	Of his intention to tender such explosives;
ii)	Certifying that the explosives has been packed and marked in accordance with rules 8 and 9;
iii)	Stating the true name, description and quantity of explosives to be transported;
b)	He has received a reply and intimation in writing from the Station Master that he is prepared to receive the explosive for immediate despatch;
c)	He has received a confirmation from the consignee regarding readiness to receive explosives as authorised under these rules.
3) orce	No person shall bring, send or forward to, or upon any railway any explosives, which a railway administration has by any notice of regulation for time in a notified that-it will not receive.

Place and time of loading and unloading. -**38.** Every explosive shall be loaded and unloaded at a safe distance from the station buildings, passenger platforms, dwelling-houses, factories, public buildings and other buildings, or places where persons assemble or any flammable or other hazardous goods are stored or handled. Every explosive intended for transport by road whether under a licence or otherwise shall be loaded only near a licensed magazine, licensed storehouse or other licensed premises. Loading of explosive:; after sunset within a licensed factory may be carried out up to 2200 hours at a well-illuminated place approved by the Chief Controller. Nothing in rule 13 and sub-rule (1) shall apply to any operations connected with the transport of explosives by passenger train or by a "pick-up" or "van" goods train used for the transport of small consignments or in the brake van of mixed train. Carriage or vessel or aircraft to be in readiness for loading: No explosives shall be brought to any place of loading until the carriage or vessel or aircraft into, which it is to be loaded is at that place in readiness to receive it. Carriage or vessel or aircraft to be incharge of a competent person: -40. A carriage other than a railway carriage or vessel or aircraft transporting explosives shall at all times to be charge of, and constantly attended by competent person experienced in the handling of explosives and appointed by the owner of such carriage or aircraft or master of the vessel. Such person shall supervise all loading or unloading operations and shall take all due precautions in regard to explosives until completion of the receipt and storage or discharge thereof. The person in charge of a carriage or aircraft or vessel shall not drive, conduct or monoeuvre such carriage or vessel or aircraft in a dangerous or negligent manner. Protection from fire or explosion. -41.

(1) No carriage or aircraft or vessel shall be used for transporting explosives unless all iron or steel therein with which a package containing any explosive is o come in contact is effectually covered with lead, leather, wood cloth or other suitable material.
2) Where the weight of the explosives transported in any carriage exceeds 1,000 kgs., they shall be placed in the interior of the carriage of which shall be enclosed on all sides with wood or metal so as effectually to protect the explosives from communication of fire and the carriage shall be locked.
Where the weight of explosives transported in any vessel exceeds 1,000 kgs., they shall be placed in the hold of the vessel which shall have a closed decand closely fitting hatches and double watertight bulk heads shall be provided at each end of the hold where the explosives are stowed and the hatches shall be ocked.
Where the explosives carried in carriage or vessel do not exceed 1,000 kgs., in weight, the explosives shall, unless they are conveyed in the manner specified in sub-rule (2) or sub-rule (3), as the case may be, be completely covered with fire-proof cloth tarpaulin or any other suitable material so as effectually o protect the explosives from communication of fire.
All doors, hatches and coverings of every compartments or hold containing explosives in or on any carriage of vessel shall be kept, closed and secured except when explosives are being loaded or unloaded into, on to or from it.
6) When explosives are being carried in or on a carriage or aircraft or vessel, they shall be kept away from anything whether in the carriage or vessel or elsewhere that would be liable to cause them to ignite or explode.
Delay in transit to be avoided If the quantity of explosives transported in any carriage or vessel exceeds 2.5 kgs., the person or persons incharge of such carriage or vessel shall not stop or delay at any place for a longer time than may be reasonably necessary, nor stop unnecessarily at any place where such stopping would be attended with danger to public.
13. Repairs to conveyance. - Before any repairs or alterations are commenced in any legal part of a carriage or vessel] in which explosives are being, or have been transported, all due precautions should be taken to remove all such explosives or any remnants thereof, and the space in such carriage or vessel in which such explosives have been carried shall be thoroughly washed out to ensure that no remnants of explosives remain therein.

Subs. by G.S.R. 41 (E) dated 15th January 1988, for the words "part of a vessel" (w.e.f. 18th January 1988). 1. Small quantities of fireworks exempted. - Nothing contained in rules 35, 40 and 41 shall apply to the transport of manufactured fireworks in the custody of a person entitled to possess them without a licence under rule 14 provided that not more than 2.5 kgs., of manufactured fireworks, securely packed, shall be so transported in any motor vehicle licensed for conveyance of more than six passengers. 45. Safety distances between carriage and boats. - Where the explosives in two or more carriages, other than motor vehicles or in two or more boats, travelling in company exceeding the maximum quantity in rule 36 for any one carriage or boat, such carriages or boats shall not approach within 5 meters of one another: Provided that-Nothing in this rule shall apply to the transport of explosives by rail; The Conservator of the port may waive the requirement within the limits of a port if in his opinion it is impracticable to secure compliance within this (b) rule. PART-II **Transport by Water** Notice of loading on or unloading from ships. - No explosive shall be loaded on or unloaded from a ship within the Iii-nits of a port unless 48 hours' notice in writing of the intended time and place of such operation has been given to the Conservator of the port. Steamer fires and lights: No explosive shall be loaded on or unloaded from any ship 47 Unless the engine room fires have previously carefully banked up, and all other fires and lights extinguished. (a) While the ship is attached to or alongside or port limits of any steam vessel or steam tug unless the engine rooms fires of such steam vessel or steam tug, have previously been carefully banked up and all other fires and light have been previously extinguished: Provided that nothing in rule shall prevent the employment this of an artificial light ship's signal lights of a type approved in writing by the Chief Controller in

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areas outside the and by the Conservator of the port within the port limits:
Provided further that a steam tug may be employed at the port of Madras to place boats alongside a ship carrying explosives or to remove them but no loading ounloading operations shall be carried on so long as a tug is within a distance of 50 meters from the ship.
48. Stowage. - No explosives shall be stowed in a ship except in accordance with regulations contained in the Merchant Shipping Carriage of Dangerous Goods Rules, 1978 (Annexure 1).
49. Conveyance of explosives on special trade passenger ships: Any authorized explosives satisfying the requirements of Cls. (b) and (c) of sub-rule 21 may be transported in a properly constructed magazine on a trade passenger ship to which Part VIII of the Merchant Shipping Act, 1958 (44 of 1958-AnnexureII) applies being a home trade ship as defined in Cl. (16) of Sec. 3 of the said Act:
Provided that-
(a) The consignor satisfies the certifying officer referred to in Sec. 243 of the Merchant Shipping Act, 1958 (44 of 1958-Annexure 11) that no other means of conveying the explosives are available;
(b) The magazine complies in all respects with the specifications for magazine in ships laid down by the Board of Trade and is approved by the Surveyors of the Mercantile Marine Department;
(c) The explosives are packed and marked in accordance with these rules;
(d) Detonators are not carried in the same hold as other explosives; and
(e) The hold containing the magazine does not contain any other hazardous or flammable goods at any time during which the magazine is in use for the

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carriage of explosives.	
50.	Conveyance of explosives on passenger vessels
(1)	The following explosive may be carried in a passenger vessel, namely:
a) or fir	Any explosives not exceeding 2.5 kgs in weight other than a fulminate (Class 5), ammunition containing its own means of ignition (Class 6, Division 3), eworks (Class 7); and
(b)	Detonators not exceeding 200 in number and certified in writing by the licensee not to contain in the aggregate more than 225 gms of explosives:
Provi	ided that-
i)	Previous notice is given to the person in charge of the vessel in which the explosive is intended to be conveyed;
(ii)	All the precautions are taken to prevent accidents by fire or explosion;
iii)	Detonators are not carried in the same compartment as another explosives.
(2)	Nothing in rules 13, 40, sub-rules (5) of rules 41, 47, 51 to 54 and 57 shall apply to explosives carried in a passenger vessel under sub-rule (1).
51.	Anchorage of vessels carrying explosives
(1) and s order	Every vessel having explosives on board and entering a port shall be anchored at such anchorage as the Conservator of the port shall appoint in this behalf hall not leave such anchorage without the general or special order of the Conservator of the port and subject to such conditions as may be specified in the

(2) Such anchorage shall in no case be the same as that for vessels laden with petroleum and shall be at such distance from the anchorage for vessels laden with petroleum as to render it impossible for a fire originating at the former anchorage to affect vessel anchored at the later.

52. Red flag or warning light to be exhibited. - Every vessel having explosives on board exceeding 50 kgs in weight shall while approaching or leaving a port and during the time that it remains within the limits of the port or on any inland water exhibit conspicuously-	
(a) Between sunrise and sunset a red flag not less than 1 meter square; and	
(b) Between sunset and sunrise a single red light visible all round the horizon.	
53. Vessels to lie singly. - Every vessel wholly or partly laden with explosive shall lie singly and be kept at a distance of at least 50 meters from any other vessel except during the actual transshipment of explosives, when one boat may lie alongside on each side of a ship, boat or floating magazine and two ships may lie alongside each other.	
54. Vessels not to lie alongside magazines, jetties, etc No vessel having any explosive on board shall lie alongside any vessel, floating magazine, quay, wharf, jetty land or landing stage except for the purposes of loading or unloading and then only during the time necessary for the actual loading or unloading of such vessel and shall proceed on its voyage without delay except such as may by unavoidable in consequence of tide or weather.	
55. Loading and unloading prohibited while a vessel is underway No explosives exceeding 450 kgs in weight and no detonators shall be loaded or unloaded while a vessel is underway.	
Explanation. - A vessel is "underway" when she is not at anchor or moored or made fast to the shore or a ground.	
56. Place of loading and unloading within a port area Explosives shall within the limits of a port, be loaded from, landed at, brought into or deposited upon, only such quay or other place as the Conservator of the port may be general or special order direct.	
57. Cushion to be sued - A cushion properly stuffed with oakum and covered with leather, or one of such other kind as the Conservator of the port may from time to time approve, shall be used in shipping an explosive in any vessel or in landing it upon any wharf or other landing place within the limits of a port.	
58. Ships to handle explosives with despatch	
(1) Ships arriving in a port with explosives intended to be landed at the port shall discharge them with all reasonable despatch, and ships taking explosives on	

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board	I shall proceed to sea with all reasonable despatch.
(2)	No ship or boat shall retain on board any cargo of explosives and remain in the port for a period longer than three days:
	ded that the Conservator of the port in consultation with Chief Controller may extend such period under such conditions as deemed fit if he is satisfied that extension of period is considered necessary.
59.	Boats to be licensed
(1) grant	No boats shall be used for the transport of explosives exceeding 1,000 kgs. in weight except under and in accordance with the conditions of the licence ed-
(a)	By the Conservator of the port in the case of a boat plying within the limits of a port, or
(b)	By an officer appointed by the Central Government in this behalf in the case of a boat plying in areas outside port limits.
(2) Cont	The licence shall specify the maximum quantity of explosives the boat is authorized to carry which quantity shall be fixed in consultation with the Chief roller.
(3)	Every licence granted under sub-rule (1) shall remain valid for a period of-
(a)	Four months in the case of a boat plying within the limits of a port, and
(b)	One year in the case of a boat plying in areas outside port limits.
(4) Gove	The licence referred to in sub-rule (1) shall be granted or renewed in such form and on payment of such fees as may be specified by the Central ernment.

(5)	A copy of every licence granted in sub-rule (1) shall be forwarded to the Chief Controller.
(6) such	Every person in charge of any boat licensed under sub-rule (1) shall, when required so to do by an officer mentioned in rule 179, produce the licence of boat for inspection.
60.	Buoy to be carried
	Every boat carrying explosives within the limits of a port shall carry on deck a buoy with a rope 27 meters length and 7.5 cms. Diameter, one end of the being attached to the buoy and the other end to the boat. The rope shall be attached to such part of the boat as is most clear of spars gear or other action and at such point as is approved by the licensing authority under rule 59.
(2) and h	The buoy shall be a drum-painted red measuring not less than 55 cm. in length and 35 cm. in diameter, properly strapped with an iron band in the middle aving a ring attached for securing the rope.
61.	Smoking, fire, dangerous articles and other cargo prohibited
(1)	The following shall not be permitted on board any boat which has explosives on board-
(i)	Fire or light of any description other than the warning light referred to in rule 52;
(ii)	Smoking;
(iii)	Any substance of an inflammable nature or liable to spontaneous ignition;
(iv)	Any substance liable to cause or communicate fire or explosion;
(v) Cont	Any other cargo, unless the carrying of such cargo has been specially authorized in writing by the Conservator of the port within port limits or by Chief coller in areas outside port limits:

Provided that nothing in this rule shall apply to the transport of explosives in a mechanically propelled boat subject to such conditions as may be specified by the
Chief Controller.

PART III

Transport by Rail

- **62. Rail vans to be approved. -** No explosives other than safety fuse and fireworks shall be transported by rail except in a van specially constructed for the carriage of explosives and of a type approved by the Chief Controller and the Railway Board.
- 63. Making of railway carriage.-
- (1) On each side of every railway carriage containing and explosive there shall be affixed in conspicuous characters by means of a securely attached label or otherwise the word "Explosives".
- (2) Nothing in sub-rule (1) shall apply in a carriage containing explosives transported in accordance with the provisions of Cl. (b) of rule 64 or rule 69.
- **64. Transport of explosives with ordinary goods.** Notwithstanding anything contained in rule 62, the following explosives may be transported by any train other than a passenger or mixed train in a carriage not carrying any article or substance liable to cause or communicate fire or explosion-
- (a) Any quantity of safety fuse for blasting;
- (b) Any other explosive approved by the Chief Controller for the purpose of this rule provided such explosive is packed in metallic cases or cylinders which fulfil all the requirements of these rules and are of a pattern approved by the railway administration and the Chief Controller.
- **65. Position of railway carriages.-** Every railway carriage containing explosive shall be placed as far away as practicable from the engine and shall be close-coupled to the adjoining carriages not loaded with explosives to other articles or substances of flammable or hazardous nature, provided that-
- (a) On the Darjeeling-Himalayan Railway carriages containing explosives need not be close-coupled;

(b)	On the Nilgiri and Karaikal-Peralam Railways, only one carriage need intervene between the engine and carriages;
(c) contai	On the electrified section of Railways when trains are hauled by electric locomotives, no carriages need intervene between the engine and the carriage ining explosives.
66. unloa	Maximum quantity of explosives to be transported by rail. - Not more than 5 carriages containing explosives shall at any one time be loaded or ded at or on any railway station or wharf and not more than 10 carriages containing explosives shall be attached to or transported by any one train.
67.	Prohibition on passenger or mixed trains No explosive shall be transported by any passenger or mixed train.
68. vans s	Despatch of explosive vans by mixed trains. - Notwithstanding anything contained in rule 67, any explosive may be transported by a mixed train in specially approved under rule 62 on any line or section on which goods trains are not running subject to the following conditions-
(a)	Not more than three such vans containing explosives shall be hauled at any one time;
(b)	There shall be not less than three carriages between the vans containing explosives, and the engine and between such vans and the passenger carriages;
(c)	The vans containing explosives shall be closed-coupled to the adjoining carriages and to each other;
(d)	Immediately on entering on any section upon which goods trains are running, the vans containing explosives shall be detached from the mixed train.
69. transp	Conveyance of explosives by passenger or mixed trainsNotwithstanding anything contained in rules 62 and 67, the following explosives may be ported by passenger or mixed train-
(i)	Safety fuse for blasting;
(ii) no de	Explosive of the 3rd (Nitro-compound) Class, other than propellants, in the form of cartridges not exceeding in the aggregate 2.5 kgs. in weight, provided tonators are carried in the same compartment;

(iii) gms.,	Detonators to the number of 200 if the amount of explosives in the package or packages containing detonators does not exceed in the aggregate 225 provided-
a)	A certificate to such effect is tendered by the consignor; and
(b)	No other explosive is carried in the same compartment;
iv)	Sporting powders and propellants packed in double packages prescribed in Sch. II, provided-
a) of tin	The explosive is contained in tin canisters containing not more than 5 kg. each packed in a stout wooden case with a completely spark proof outer cover or zinc or in a metal case of cylinder of a pattern approved by the Chief Controller;
(b)	No outer case contains more than 12.5 kg. of explosives; and
(c)	The total consignment by one train does not exceed in the aggregate 37.5 kgs.
70.	Receipt of consignment of explosives by railwaysConsignments of explosives intended to be transported by rail shall be received only
a)	By a servant authorized by the Railway Administration concerned to receive dangerous goods; and
(b)	At such times between sunrise and sunset and at such places within railway premises as the Railway Administration may specify in this behalf.
71. office	Shunting. - No shunting of carriages containing explosives shall be carried out on any railway save under the superintendence of duly authorized or who shall 6e responsible that-
a) substa	When the train is being marshalled carriages loaded with explosives engine by not less than three carriages containing no explosive or easily inflammablance;

(b)	During the shunting of carriage containing explosive, the speed of all movements shall not exceed 8 kilometers an hour; and
(c)	No loose shunting takes place.
72.	Delivery to and from railway premises
(1) as so	Packages containing any explosive shall be removed by the consignee from the station, wharf or depot of the railway to which they have been transported on as practicable and with all due diligence after arrival.
(2) cons	If the packages are not removed within the twelve hours of daylight following their arrival the packages and contents may be forthwith returned to the ignor at his risk and expense.
(3) mast	Every package containing an explosive shall until removed, returned or despatched be kept in a sage place under the special direction of the Station er at a sage distance from the station building under the pol8ice guard if necessary and shall be completely covered with tarpaulins or other suitable
73.	Power of Railway Administration
(1) Adm	Where a Railway Administration suspects that an explosive or carriage or package containing an explosive does not comply with any of these rules, the inistration may
(a)	Prevent the entry of such explosive, carriage or package upon their premises or refuse to receive or transport them; or
(b)	At any time open or require such carriage or package to be opened to ascertain the facts.
(2) such	If any explosive or any carriage or package containing explosives is found not to comply with any of these rules, the Railway Administration may return explosives carriage or package to the consignor at his risk and expense.
	Where any explosive or any carriage or package containing explosive not complying with these rules cannot in the opinion of the Railway Administration turned to the consignor under sub-rule (2) without -undue risk the administration may, in consultation with the Chief Controller and in such manner as he specify, destroy at the consignor's risk and expense the explosives or the contents of the carriage or package.

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74. facili	Explosives not to be carried across railway bridges. -No explosive shall be carried otherwise than by rail across any railway bridge with reasonable ties for the transport thereof by rail are afforded by the Railway Administration:
Provi	ided that nothing in this rule shall apply to-
(a)	Safety fuses for blasting in any quantity; or
(b)	Gunpowder or nitro-compound not exceeding 5 kgs. or any quantity of ammunition, Class 6, Divisions 2 and 3.
	PART IV
	Transport by Road
75.	Streets, public places and other specified areas
(1) speci	No person shall transport or cause to be transported any explosive on any road within the limits-of a municipality or cantonment where such road is fically prohibited for plying vehicles carrying explosives.
(2)	Nothing in sub-rule (1) shall apply to-
(a)	Any explosive of 7th (fireworks) Class, or safety fuse; or
(b)	Other explosives not exceeding 5 kgs. in weight.
76. rules	Licence for road vans. -No person shall transport or cause to be transported any explosives in a road van unless such vehicle is licensed under these to carry explosives:
Provi	ided that nothing in this rule shall apply to transport of safety fuse and fireworks.

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77.	Restriction on transport of explosive by vehicles other that road vans
(1)	No explosive shall be transported by any carriage which is no a road van:
	ded that any explosive may be transported by any carriage which is not a road van if the distance from the place of loading to the place of destination doe sceed 10 km. and the following conditions are complied with-
(a)	The transport of explosives is restricted to the period between sunrise and sunset;
(b)	The explosives are accompanied by at least two able-bodied guards;
(c)	A red flag is displayed on each cart;
(d)	The packages containing explosives are suitably covered by a tarpaulin, and secured.
(2)	Nothing in sub-rule (1) shall apply to transport of safety fuse or fireworks.
78.	Loading of explosives
(1)	The person incharge of loading explosives into or into a vehicle or aircraft for carriage shall ensure that the explosives are stowed in such a manner that
(a)	During normal course of transport they will not move and will be protected against friction and bumping; and
(b)	Should it become necessary to unload any of the explosives, those remaining can be bestowed with as little disturbance as possible.
(2)	No person shall load or unload explosives on to or from a licensed vehicle, except when the engine of the vehicle is stopped, the wheel is choked and the

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nand	and brake applied.		
79.	Restrictions on use of towed vehicles No person shall transport explosives in any towed vehicle or tow any vehicle transporting explosives.		
80.	Carriage of explosives with other substances prohibited No other goods shall be carried with explosives in any vehicle:		
Provi	ided that no more than 1000 kgs. of fireworks may be carried along with other goods not being flammable and hazardous in nature.		
81.	Loading, unloading, maintenance and operation of road vans		
(1) comp	After the loading or unloading of explosives in or from any such vehicle is commenced the operation shall not be stopped until completed and shall be bleted as expeditiously as possible.		
(2) conta	No bale hooks or 'other metal tools shall be used for the loading, unloading or handling of packages containing explosives nor shall any package or inner of explosives be thrown or dropped during such operation.		
(3)	The vehicle shall be regularly checked to see that-		
(a)	The fire extinguishers are filled and in working order;		
(b)	The electric wiring is completely insulated and firmly secured;		
(c)	The fuel tank and feed lines have no leaks;		
(d)	The chassis, engine, inside and bottom of the body are clean and free from surplus oil and grease;		
e)	The brakes and steering apparatus are in good condition; and		

- The spare type and wheel are in a fixed position. (f) Explosives shall not be loaded on in a vehicle unless the vehicle has been periodically serviced in accordance with the instructions specified in the service manual by the manufacturer of the motor vehicle. The fuel tank of a vehicle carrying or containing an explosive shall not be filled except in case of necessity, in which case the engine shall be stopped, the ignition shut-off and the tank filled only at a place where filling is not a danger to the public safety. The driver of the road van shall supervise filling of fuel taken keeping a fire extinguisher ready by his side. The driver or operator of a vehicle carrying or containing an explosive shall not stop unnecessarily or for a longer period than is reasonably required, stops at places where the public safety would be endangered shall be avoided: Provided that where a road van transporting or containing explosives is parked over night due to the reasons beyond the control of licensee or the driver, the premises in which the van is parked-Shall not be used for any purpose that might give rise to the presence therein of an open flame, matches or any substance or article likely to cause explosion or fire; Shall be away from any habitation or any godown containing articles of a flammable nature or other hazardous goods: (b) Provided further that the nearest police station shall be informed about the location and temporary parking of the van. The driver or operator of any vehicle carrying or containing an explosive shall not drive or conduct the same in a dangerous or reckless manner. (7)Routes passing through centers of dense habitation shall, as far as possible, be avoided. (8)A road van while transporting explosives shall always be attended to b at least one able-bodied person (in addition to the driver) who is capable of by looking after the vehicle.
- each such vehicle.

(10) When there is a convey of two or more vehicles transporting explosives, where practicable, a space of at least 300 meters shall be maintained between

(11)	Road van transporting explosives shall not be driven past fires to any kind on or near the highway or other thoroughfare.		
	(12) The driver of the road van while transporting explosives shall, before crossing any unmanned railway crossing or before crossing any main highway, bring the road van to a full stop and proceed only when the way is safely clear.		
(13)	The original licence for van granted under these rules or attested copy of the same shall always be carried in the vehicle.		
82. Lighting of stationary vehicles Where a road van carrying explosives is stationary on a public road at night, otherwise than by reason of delay incidental to the flow of traffic, driver or the licensee of the van shall keep the parking lights "on" throughout the stay and if necessary also provide reflectors in such position as to convey an effective warning of the presence of the road van to the drivers of other vehicles.			
83.	Wheel chocks Four-wheel chocks shall be carried in or on a licensed vehicle at all times when explosives are being carried in or on the vehicle.		
84. least 3	84. Vehicle on fire. - If any fire occurs on a vehicle containing explosives the driver shall take all practicable steps to ensure that all other traffic is stopped at least 300 meters from the vehicle and that all persons in the vicinity are warned of the danger.		
85.	Accident to the vehicle		
(1) explo	Where a vehicle transporting explosives is involved in an accident, fire or any other occurrence, that causes a significant delay in the delivery of sives or damage to the vehicle or explosives, the driver or any other authorized person accompanying the vehicle shall-		
(a)	Comply with all requirements of law relating to road accidents;		
(b)	Inform nearest police station-,		
(c)	Inform the licensee who shall-		

(i)	Inform the Chief Controller and the Controller in whose jurisdiction the accident has taken place giving the full details of explosives carried and accident	
(ii) place	Arrange for safe storage and custody of explosives till a examination by the Controller if required, and then arrange for transport to the destination or designated by the Controller;	
In cas	se of a break down of road van, the driver or the person incharge of the vehicle shall-	
(a)	Make or permit to be made minor repairs if the repairs can be made without hazard;	
(b) stored	Where major repairs are required, prevent such repairs being made until the explosives are transferred to another van or are removed from the vehicle and under proper security at a safe distance from the highway and at least 300 meters from any inhabited premises-	
(c) Inform the licensee who shall in turn inform the Chief Controller and the Controller in whose jurisdiction the vehicle is broken down giving full details of the explosives and the circumstances attending the breakdown.		
86.	Fire extinguishers to be provided	
(1) fires	Every road van shall be provided with 2 fire- extinguishers or minimum 2 kgs. capacity. One of the extinguishers shall be capable of dealing with electricand the other with engine fires, type fire or such other similar fires in a van. The fire extinguishers shall always be kept in good working condition.	
(2) accor	Fire extinguishers shall be located where they will be convenient and ready for immediate use. Fire extinguishers shall also be examined and recharged ding to the manufacturers recommendations.	
	CHAPTER V	

Manufacture of Explosives

87.	I icomoo	for manuf	acture
0/.	Licence	ior manui	acture

- (1) No person shall manufacture any explosive at any place except in a factory or premises licensed under these rules.
- (2) The licensee shall be responsible for all operations in connection with the manufacture of explosives, which may be conducted in the licensed premises.
- 88. No licence needed for manufacture in certain cases. -Notwithstanding anything contained in rule 87, no licence to manufacture shall be necessary for manufacture at a Government or industrial laboratory or a laboratory of an educational institution and under the supervision of a qualified person of a quantity of explosive not exceeding an amount reasonably necessary for the purpose of chemical experiment and test and not intended for practical use or sale, subject to the following conditions, namely:
- (a) The Chief Controller shall be given prior intimation of the nature of the explosives and the quantity of explosives proposed to be manufactured in the laboratory together with the name and address of the institution and the particulars and experience of the person conducting the experiment.
- (b) If the Chief Controller on receipt of the information under Cl. (a) above is of the opinion that it would not be safe to conduct such experiment he may, in writing, prohibit conducting the experiment.
- (c) All precautions shall be taken to prevent injury to persons or damage to property and all provisions of the Act and these rules shall be observed as far as they are otherwise applicable.
- (d) No experiment shall be conducted to make any explosive which is specifically prohibited under Sec. 6 of the Act.

89. Approval of manufacturing process. -

(1) No new explosive after its inclusion in the list of authorized explosives shall be manufactured unless the licensing authority and his permission obtained in writing approves the process of manufacture.

(2) A person intending to manufacture an authorized explosive shall submit to the Chief Controller separately for each explosive a project report in duplicate containing, among other relevant date, the following particulars:		
(a) cond	The detailed process starting from the raw materials to the finished product describing the plant and equipment, quantities of materials handled, operating itions and parameters, nature of controls and safety devices provided, the proposed method of treating effluents and waste explosives;	
(b)	The nature and composition of the explosives;	
(c)	The limiting percentage of each ingredient of explosives;	
(d)	The specification of the various raw materials including substitutes, if any, used in the process of manufacture;	
(e)	Physical and chemical characteristics of final produce;	
(3) appro	The Chief Controller after scrutiny of the Project Report and after making such further enquiries as may be considered necessary, may, if he is satisfied, ove the process for each explosive separately.	
(4) ingre	No person shall make any changes in the process, nature and composition of explosives, specification and limiting percentages of raw materials and edients without prior approval of the Chief Controller.	
(5) unde	The Chief Controller may cause at any time any test on any raw material, ingredients or explosives to ascertain if these conform to the particulars given a sub-rule (2).	
90.	Restriction on unauthorized persons:	
(1) stren	A factory licensed under these rules for manufacture of explosives shall be surrounded by a wall or barbed wire fencing at least 2 metres high of such gth and construction as to effectively prevent entry of unauthorized persons.	

The area enclosed by such wall or fence shall cover the safety zone required to be kept clear from any of the process buildings or sheds. The licensee shall at his own expense provide for safe custody of the factory a guard which shall be of such strength as the District Authority may consider to be sufficient. Buildings to be used for specified purpose only. - Every building in factory shall be used only for the purpose specified in the licence granted under these rules: Provided that the licensing authority may temporarily permit the use of a building for a purpose other than that specified in the licence after satisfying himself that such a change is safe and for smooth operation of the process of manufacture. Interior of buildings to be suitably finished. - A building in which explosive or any ingredient thereof which either by itself is possessed of explosive properties, or which when mixed with any other ingredient or article also present in such building is capable of forming an explosive mixture or an explosive compound kept or present, or in the course of manufacture is liable to be, shall, be a danger building; and the interior of every such building and the benches, shelves and fittings in such building (other than the machine) shall be so constructed or so lined or covered as to prevent the exposure of any iron or steel and the formation and detachment of any grit so as to come into contact with the explosive or ingredient thereof in such building and such interior benches, shelves and fittings shall, as far as reasonably practicable, be kept free from grit and otherwise clean: **Provision of mounds.-** Every building used for production, handling, storage testing of explosives in a licensed factory unless otherwise exempted by the 93. licensing authority shall be surrounded by a substantial mound which shall be of a type and design approved by the Chief Controller: Provided that the licensing authority may allow blast walls in place of substantial mound if such blast walls can be provided for the purpose.

Restriction of articles liable to spontaneous ignition. - Oiled cotton, oil rags and oil waste and any article liable to spontaneous ignition shall not be taken into any danger building except for the purpose of immediate supply and work or immediate use in such building and upon cessation of such work or use

Use of special tools and implements. - No tools or other implements shall be used or allowed to be present in a building used for carrying out process of

manufacture (hereinafter referred to as process building) unless they are of wood, copper, brass or soft metal or material, or are covered with safe and suitable

- Particulars to be exhibited on process building. There shall at all times be prominently exhibited clearly and legibly: -96.
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94.

material.

shall forthwith be removed.

(a)	On every process building in the licensed factory the same distinguishing number as mentioned in the approved plan attached to the licence;	
(b)	Inside every process building a notice showing -	
(i) autho	Maximum quantity of any explosives or ingredients for such explosives that may be in the building at any one time as authorised by the licensing rity;	
(ii)	The maximum number of persons who may be in the building at any one time as authorised by the licensing authority.	
97.	Prohibition of smoking. - Except in places especially approved by the licensing authority, no person shall smoke in any part of the licensed factory.	
98.	Protection against lightning	
(1) laid d	Every process building shall have attached thereto one or more efficient lightning conductors designed and erected in accordance with the specification own in Indian Standard Specification No. 2309 as amended from time to time.	
•	The connections to various parts and earth resistance of the lightning conductor terminal on the building to the earth shall be tested at least once in every by a qualified Electrical engineer or any other competent person holding a certificate of competency in this behalf from the State Electricity Department. A cate showing the results of such test and the date of such test shall be hung up in a conspicuous place in the process buildings:	
Provided that process buildings used for manufacture of firework, explosives of Class 7, may not be provided with lightning conductor unless otherwise specified by the licensing authority.		
	Suspension of work during thunderstorms. Whenever a thunderstorm appears to be imminent in the vicinity of the process building, every person sed in or about the building shall be withdrawn to a safe distance and the building shall be kept closed and locked until the thunderstorm has ceased or the of the same has passed:	

Provided that where an operation is in process, stopping of which would in itself contribute a danger in which case the operation shall be carried on to point at which it can be suspended with safety, and no such operation shall be commenced during the storm.

100. Removal of foreign matter from ingredients. - No substance shall be made or mixed into an explosive in or on licensed Premises unless it has been thoroughly treated by shifting or other effective means for the detection and removal of all foreign objects and matter that might cause danger if not removed.

101. Protection against fire. -

- (1) Due provision shall be made by the use of suitable working clothes without pockets and suitable shoes and searching and otherwise, or by some or all of such means to prevent the introduction into any danger building of fire, matches or any substance or article likely to cause explosion or fire, and for preventing the introduction of any iron, steel or grit into any part of the danger building where it would be likely to come into contact with explosive over wholly or partially mixed ingredients thereof.
- (2) Nothing in sub-rule (1) shall apply to the use of such artificial lights as may be approved by the Chief Controller for the purpose of manufacture.

102. Removal of explosives and materials expeditiously. -

- (1) All explosives processed in a process building shall immediately be removed to the next process building or a licensed magazine or store-house, as the case may be, and no explosive shall be allowed to accumulate in any process building.
- (2) Where the process in the manufacture of explosive in a process building has been completed, all substances that have been brought into the building or use in that process but not used, and that are not immediately required for use in another process in the same building, shall immediately be removed from the buildings

103. Repair to building. -

(1) Before carrying out repairs to any building or part thereof, including any equipment therein, that building or equipment shall be thoroughly made free of explosives by a suitable process of removal.

- If the repairs to the building or a part thereof require use of any source of fire, licensee shall issue a written permit allowing use of such articles under the supervision of a competent person. A copy each of such permit shall be preserved for a period of three months and presented on demand by an inspecting officer. If major repairs are done to a building or any part thereof including any machinery therein, that building or part of it shall not be taken into use unless the same is permitted by the licensing authority 104. Employment of competent persons. - No explosives shall be manufactured in any building or part thereof except under the supervision of a competent person employed by the licensee. Such competent person shall be fully conversant with the process of manufacture of explosives, hazards connected therewith and the provisions of these rules. 105. Employment of young persons. - Any person who has completed the age of 18 years but not 21 years, shall only be employed after he submits to the employer an evidence of his age from a registered medical practitioner, or a birth certificate. 106. Use of vehicles. - Every vehicle and every trolley or receptacle in which finished or partly finished explosives are transported in a licensed factory area shall-Unless otherwise approved, have no exposed iron or steel in its interior; (a) Be closed or covered while the explosive or its ingredients are being transported.. (b) Maintenance of buildings, plants and equipment. -107 Every building in or on licensed premises shall always be maintained in a fit condition, (1) All plants and equipment in a licensed factory shall be regularly serviced and maintained in a proper and fit condition by the licensee. A record of all such servicing and maintenance shall be maintained till the time of next servicing and maintenance. In case of any major or repairs or replacement to any machinery or equipment, such record should be preserved till replacement of such machinery and equipment. 108. Facilities for testing. - Proper testing facilities as approved by Chief Controller for routine physical and chemical examination of raw materials,
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intermediates and final products shall be provided by the licensee in the licensed premises at place specially approved by the Chief Controller:

Provided that the Chief Controller may direct the licensee, by a written order to prove such additional facilities at such places which, in his opinion, are necessary for maintaining desired quality and safe manufacture of explosives in the licensed factory.	
109. Disposal of waste explosives	
The laboratories, process buildings and machineries therein shall be swept and cleaned at the end of each shift or earlier if necessary, and the sweepings shall be properly collected and stored in a safe place till finally disposed of by the method approved by the licensing authority.	
2) Adequate facilities for safe destruction under the supervision of a competent person and at a place approved by the licensing authority in the licenses shall be provided by the licensee for the materials collected under sub-rule (1).	
Stoppage of manufacturer of explosives: - If at any operation in the process of manufacturer of an explosive no longer found to be safe or behaviour of the explosives during the course of storage, transport or use is no longer found to be safe due to change in the nature and composition of explosive, or due to another reason, the Chief Controller may issue an order in writing directing the licensee to discontinue forthwith the manufacture of such explosive till such time the operation or the composition is rectified to the satisfaction of the Chief Controller.	
Exclusion from list of authorised explosive If the Chief Controller of Explosives stops the manufacture of any explosives under rule 110 or if any explosive is not manufactured for a continuous period of two years such explosives may be excluded from the list of authorised explosives by the Central Government.	
112. Maintaining records The licensee of a factory shall keep up-to-date records in the prescribed forms and produce the same before an inspecting officer. Such records shall be retained for a period of minimum 2 years.	

CHAPTER VI

Possession, Sale and Use

PART I

General

in blast holds.

113.	Licence for possession, sale and use
(1)	No person shall possess, sell or use any explosive except under and in accordance with a licence granted under these rules.
(2) covere	The licensee shall be responsible for all operations in connection with the possession, sale or use of explosives, which may be conducted in the premises ed by the licence.
114.	No licence needed for possession and sale in certain cases
(1)	Notwithstanding anything contained in rule 113, no licence shall be necessary for the possession-
(a) Chapt	Of any explosive by a carrier or other person for the purpose of transport, when the same is being kept or transported in accordance with the provisions of er - IV regulating transport of such explosives; or
(b)	By any person of manufactured fireworks in any quantity not exceeding 25 kg., provided that the fireworks-
(i)	Are obtained and intended by such person for immediate use and not for sale and are possessed by him for a period not exceeding 14 days; and
(ii) person	Are kept in a substantial receptacle which is exclusively appropriated to the keeping of explosives and is closed and secured so as to prevent unauthorized as from having access to the explosives; or

(c) By any person for his, own private u and not for sale of gunpowder not exceeding 5 kgs. in any State, other than Bihar Kerala and West Bengal, and of small arm nitro-compound not exceeding 5 kgs., except in the State of Kerala, or 1[50] metres of safety fuses for blasting or of soaked liquid oxygen explosives

(d) by Railway Administration of flare lights or other explosives for its own use and not or sale to any other person by transfer or otherwise for maintaining railways, track, tunnels provided that the provisions of the Acts and these rules are otherwise complied with;
1. Ins. by G.S.R 41 (E), dated 15th January 1988, for the figure "20" (w.e.f. 18th January 1988).
(e) Of any explosive, which is not for sale, and is required solely for the navigation of aircraft when kept in an aircraft for use therein or for distribution to other aircraft or to aerodromes or at an aerodrome for use there or for distribution to aircraft or to other aerodromes, provided that the maximum quantity so possessed shall not exceed 25 kgs., when carried in an aircraft and 50 kgs., when kept at an aerodrome;
¹ [(f) and sale from a shop of amorces (an explosive of Class 7 and division 2) in quantity not exceeding 12.5 kgs.]:
1. Ins. by Explosives (Amendment) Rules, 1987, vide G.S.R. 995 (E), 16th December, 1987 (w.e.f. 18th December, 1987).
Provided that in respect of Cls. (b) and (c), the Central Government may prohibit the possession of any explosive or prescribe any conditions under which the

Notwithstanding anything contained in rule 113, no licence shall be necessary for the sale of such explosives manufactured by the Armed Forces of Union

and Ordinance Factories or other establishment of such Forces as are sold or delivered to any person who is in possession of a valid licence issued under these

115. Possession in the licensed premises only. - A person holding licence for possession of explosives granted under these rules shall store the explosives

Every magazine shall have attached thereto one or more efficient lightning conductors designed and erected in accordance with the specification laid

The connections to various parts of earth resistance of the lightning conductor terminal on the building to the earth shall be tested at least once in every

explosives can be possessed without a licence when considered necessary for the security of public peace.

rules for the class and quantity of explosives so sold or delivered.

down in Indian Standard Specification No. 2309 as amended from time to time.

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only in premises specified in the licence.

Protection from lightning. -

year by a qualified electrical engineer or any other competent person holding a certificate of competency in this behalf from the State Electricity Department. A certificate showing the results of such test and the date of the last test shall be hung up in conspicuous place in the building.

- 117. Precautions during thunderstorm.- Whenever a thunderstorm appears to be imminent in the vicinity of a magazine or store-house every person engaged in or about such magazine or store-house shall be withdrawn to a safe distance from such magazine and store-house and the magazine and the storehouse shall be kept closed and locked until the thunderstorm has ceased or the threat of it has passed.
- 118. Building to be kept clean. -
- (1) The interior of every building or room used for storage of explosives and the benches, shelves and the fittings in such building or room shall be so constructed or so lined or covered as to prevent the exposure of any iron or steel and the detachment of any grit, iron, steel or similar substance so as to come into contact with the explosive in such building and such interior benches, shelves and fittings shall, so far as is reasonable, practicably, be kept clean and free from grit.
- (2) A cemented trough at least 15 centimetres deep shall be provided near each entrance of a magazine or storehouse. Such trough shall be kept filled with clean water and no person shall enter the magazine or store-house without dipping overshoes or feet in such a trough so as to remove any grit or dust.
- (3) Oiled cotton, oiled rags or oiled waste or any articles liable to spontaneous ignition shall not be taken into any magazine or store-house used for storage of explosives.
- 119. Maintenance of records. Every person holding a licence granted under these rules for possession, sale or use of explosives shall maintain records in the prescribed forms and shall produce such records on demand to an inspecting officer.
- **120. Repairing of licensed magazine or store-house: -** Before repairs are done to any magazine or store-house or part thereof used for storage of explosives, that magazine or store-house shall be cleaned by removal of all explosives and by thorough washing.
- **121. Prevention of introduction of hazardous articles.** The licensee or his authorised agent for the time being in charge of a magazine or storehouse shall prevent persons employed or engaged in or about the magazine or store-house from taking hazardous articles or substances therein by maintaining an effective system of search and also providing them and making them wear, whenever they are in the magazine or store-house, working clothes, without pockets, and with suitable shoes.
- 122. Premises to be kept locked. -

(1) Any licensed magazine or storehouse shall be kept securely closed or locked at all times except when goods are being placed in or taken from it or when it must be kept open for some other purpose in connection with the management of such premises.		
(2) The keys of the licensed magazine shall, at all times, be kept secured in licensee's own custody or of his authorised agent and shall be produced for opening the magazine or store-house whenever so required by an inspecting officer. The name and address of the person with whom the keys will be kept shall be intimated to the licensing authority and the Controller of Explosives having jurisdiction.		
123. Guards to be provided		
(1) The licensee shall at his own expense provide for round the clock safe custody of the magazine or store-house a guard which shall be of such strength as the District Authority, may consider it to be sufficient.		
(2) The licensee shall provide a shelter for the watchman on duty near the magazine or store-house.		
124. Repacking or opening of packages		
(1) No packages containing explosives shall be opened in magazine or store-house.		
(2) Repacking of explosives shall be done, where necessary in an approved open-sided shed having smoothly finished cemented floor at a distance as approved by licensing authority.		
125. Explosives not to be kept in damaged boxes The licensee of every magazine or store-house shall ensure that the explosives are always kept in their original outer package. In case the outer packages get damaged so that the explosives contained therein cannot be stored or transported such explosives shall be repacked only after the same are examined by a Controller of Explosives.		
126. Storage of explosives in excess of the licensed quantity		
(1) The quantity of any kind of explosives kept in any licensed magazine or storehouse shall not exceed the quantity entered in the licence against such kind of explosives.		

- (2) Notwithstanding anything contained in sub-rule (1), the Chief Controller may issue a permit, on payment of the prescribed fee to a holder of licence in Form 22 and such holders of licence in Form 21 who also have licence in Form 20 (for the class of explosives) for keeping of explosive in excess of the licensed quantity entered in the licence when he is satisfied that such excess storage is essential and unavoidable due to circumstances beyond the control of the licensee. The validity of such permit shall not exceed 30 days,

 (i) The licensing authority shall not issue any permit for excess storage of explosives if the magazine or store-house cannot observe the requisite safety distances for the total quantity entered in the licence plus the additional quantity of explosives so permitted.

 (ii) No permit for storage of explosives in excess of the licensed capacity shall be granted if the specified distances on the licence around the magazine or store-house or the floor space in the specified rooms for storage of each kind of explosives is not adequate for keeping of the total quantity of explosives, including the excess quantity applied for. (3) The licensing authority may refuse to grant a permit for excess storage of explosives if such excess storage is of a repeated nature.
- (4) No explosive in excess of the licensed quantity shall be stored in the magazine or store-house unless a permit in this behalf is obtained from the licensing authority by a letter or telegram.
- 127. Permit for temporary possession of manufactured fireworks in excess of the licensed quantity. A permit may be granted by the licensing authority to a holder of licence in Form 24 to possess in addition to quantity permitted by the licence, any quantity of manufactured fireworks so that the total quantity permitted to be stored does not exceed 125 kgs for a period not exceeding 15 days at a time provided that
- (a) No rule or condition of the licence other than that prescribing the maximum quantity of fireworks to be possessed is infinged;
- (b) The applicant pays prescribed fees for excess storage.
- **128. Quantity of explosives to be purchased in a given period of time. -** A holder of a licence to possess, sell or use explosives shall purchase only such quantity of explosives in a given period as may be specified in the licence.

PART II

Magazines

129. Storage in a magazine. - An explosive if stored in a magazine shall be stored either in Mode 'A' or Mode 'B' magazine as specified in Schedule VII.

130. Restriction on use of Mode 'B' magazine Mode B magazine shall be used for storage of explosives required for use for a temporary period for a specific purpose and such magazine shall not be used for sale of explosives.		
131. Mound of magazines A substantial mound shall be provided near a magazine, if so required by the licensing authority. Such mound shall be of a type approved by the licensing authority and shall always be maintained in good condition to provide effective protection.		
132. Magazine or store-house to be at ground level A magazine or a store-house shall be constructed at ground level only as a single storey building.		
PART III		
Store-House		
133. Restrictions on storage No explosives, other than fireworks and sate fuse, shall be stored in any storehouse.,		
134. Construction of store-house		
(1) A store-house shall be well and substantially built of brick, stone or concrete and shall be so made and closed as to prevent unauthorised persons having access thereto and to secure it from danger of fire from without. Store-house shall be well ventilated.		
(2) Where a store-house forms part of a building, the other parts of which are used for any other purpose, it shall be separated therefrom by suitable fireproopartitions and the walls, floor, roof and doors shall be of fire-proof materials. Such store-house shall not be used for storage of more than 150 kgs., of firework or fifty thousand metres of safety fuse and shall be provided with independent entrance and such other measures as may in the opinion of the licensing authority be deemed necessary in the interest of prevention of fire or accident. Such store-house shall be at a minimum distance of 15 meters from any other premises used for storage of explosive, flammable substances or other hazardous materials, and shall not be used for sale of explosives:		
Provided that such store-house may be used for sale of explosives manufactured within a licensed factory for manufacture of Class 1 and/or Class 7 explosives not exceeding ¹ [15] kgs., at a time, if such store-house is situated within such a factory.		

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Subs. by G.S.R. 41 (E), dated 15th January 1988, for the figures "12.5" (w.e.f. 18th January 1988).

2.

Possession of small arms nitro compound or fireworks ²[for

Gunpowder Janu Safety fuse for Safe in Form 24

135. Construction of premises. -

Ins. by ibid.

- (1) All explosives on the premises shall be kept in a brick, stone or concrete building, which is closed and secured so as to prevent unauthorised person from having access thereto.
- (2) The premises shall have a floor area of minimum nine square meters.
- (3) The premises shall have independent entrance and exit.
- (4) If the premises are situated in a building used for other purposes also, such premises shall not be situated under a staircase and shall be so located as not to obstruct any passage in form or to the building in case of fire or accident.
- (5) The premises shall be situated at ground level.

136. Special precautions to be observed for fireworks. -

- (1) Subject to other provisions of this rule, fireworks shall be not placed or kept in a shop window used for display of goads.
- (2) Fireworks in the shop shall be kept in a spark-proof receptacle, or the original outer packet in which they were received if that package is effectively sealed and in good order and condition.

(3) flamn	A receptacle or package containing fireworks shall be kept in a position away from and clear of shop traffic and to be separated from all articles of a nable or combustible nature.	
(4)	Where a package containing fireworks is opened for sale, the fireworks, shall immediately be placed in a clean, dust free and spark-proof receptacle.	
(5)	A receptacle that contains fireworks shall-	
(a)	Not to be used otherwise than as a container for fireworks;	
(b)	Not to be opened except when fireworks are being placed in or taken from it;	
(c)	At all times to be kept clean and free from dust and grit;	
(d)	Not have in it any matches including Bengal Matches; and	
(e)	Not have in it any means of artificial lighting.	
-	Safety distances to be maintained The premises licensed in Form 24 for storage and sale of small arms nitro-compound, fireworks or ² [gunpowder afety fuse shall be at a distance of minimum 15 meters from any such premises or any other premises used for storage of similar explosives, flammable or dous materials.	
	Sale of other articles prohibited: - The premises in which small arm nitro-compound fireworks or ² [gun-powder and] safety fuse is kept shall be used for possession and sale of such explosives and for no other purposes.	
PART-V		
Sale of Explosives		
139.	Explosives to be sold from licensed premises. - No person shall sell explosives from any premises other than those licensed under these rules.	

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140. thereo	Defacing of marking prohibited. - No person who sells any explosives shall alter or deface any printing or marking on the explosives or the packages f.		
141.	Restriction on sale of explosives		
(1)	No person shall sell any explosive to any person who is not authorised to possess such explosive under these rules.		
(2)	No person shall sell, deliver or cause to be delivered to any person any explosive that has deteriorated or is defective.		
(3)	A licensee selling explosives to a holder of licence in Form 23 shall endorse the transactions on such licence form.		
142. public	Explosives not to be exposed for sale. - An explosive shall not be hawked, sold or exposed for sale upon any highway, street, public thoroughfare or place.		
143. Small packages to be clearly marked An explosive shall, as far as practicable, be sold in original packages. If the quantity sold to any person is less than the quantity of explosives packed in the original packing, such quantity shall be packed in a safe and proper manner in a substantial package, which shall be clearly marked with following markings			
(1)	Name of the explosives;		
(2)	Class and division according to Schedule 1;		
(3)	Quantity of explosives packed;		
(4)	Licence number of the magazine from where the explosives were supplied and packed;		
(5)	Name of the person, who packed the explosives-,		

(5)			
(6)	Date of packing;		
(7)	Name of the consignee.		
	PART-VI		
	USE OF EXPLOSIVES		
144. short	Competent persons to be employed. No person shall use explosives for blasting purposes unless he employs a qualified shot-firer holding a -firer's permit granted under these rules:		
Provided that for blasting operations in mines coming under the purview of the Mines Act, 1952, such shot-firer shall have qualifications prescribed in the regulations framed under the said Act.			
145.	Restrictions on preparation of charges		
(1) ingre	An explosive of one description shall not be converted into an explosive of another description and an explosive shall not be unmade or resolved into its dients.		
(2) cartri	The explosives of Class 2 or Class 3 shall be used in their original cartridge packing and such cartridges shall not be cut to remove explosives for making idges of different sizes.		
(3)	The licensee shall get prior approval of the authority, which granted his licence for preparation as is allowed by these rules.		
146.	Restriction on conveyance of explosives to or at the blasting site		

(1) for th	Explosives shall only be conveyed from the licensed storage premises to near the site in original unopened packages or in closed containers used solely at purpose.
(2)	Explosives shall not be taken to a point nearer than 50 metres from any site until such site is ready for charging.
(3)	Explosives shall not be conveyed in any vehicle with any other materials, tools or implements other than that required for the purpose of blasting.
(4)	Explosives left over after the day's work shall be returned to the licensed premises from which the same were taken.
	The containers used for carrying explosives from original packages shall be maintained thoroughly cleaned and dried and shall be kept closed when not in The containers shall be provided with either handles or carrying straps of adequate strength and shall be conspicuously marked with the word losives".
(6) energ	Detonators shall be conveyed in special containers. These shall not be carried with other explosives. Batteries-, dry cells and other sources of electric y shall not be carried in the vehicle-carrying detonators.
147.	Explosives to be examined before use
(1)	Explosives before use shall be visually examined for any visible defects and any defective explosives shall not be used.
(2) exam	Any explosive showing signs of deterioration of any kind should be reported immediately to the licensing authority and such explosives set aside for ination by such authority.
(3)	Gun-powder, which is found to be caked owing to the moisture, shall not be used.
(4) low-f	Frozen nitro-glycerine explosives shall not be used until thawed under the supervision of experienced persons. Where freezing is likely to occur only reezing explosives shall be used,

148. Precautions to be observed at site. -The electric power at the blasting site shall be discontinued as far as practicable before charging the explosives. (1)No work other than that associated with the charging operations shall be carried out within 10 metres of the holes unless otherwise specified to the contrary by the licensing authority. When charging is completed, any surplus explosive detonators and fuses shall be removed from the vicinity of the hole and stored at a distance which would prevent sympathetic detonation in the event of a charge detonating prematurely in any hole. The holes, which have been charged with explosives, shall not be left unattended till the blasting is completed. (4) Care shall be taken to ensure that fuse or wires connected to the detonators are not damaged during the placing of stemming material and tamping. (5)149. Suitable warning procedure to be maintained. - The licensee or a competent person by the licensee to be in charge of the use of explosives at the site shall lay dow6 a clear warning procedure consisting of warnings signs and audible signals and all persons employed in the area shall be made fully conversant with such signs and signals. 150. Precautions to be observed while firing. -The end of the safety fuse should be freshly cut before being lighted. (1) The exploiters shall be regularly tested and maintained in a fit condition for use in firing. An exploder shall not be used for firing a circuit above its rated capacity. The electric circuit shall be tested for continuity before firing. All persons other than the shot-firer and his assistants, if any, shall be withdrawn from the site before testing the continuity.

, ,	For the purpose of joining the ends of all wires and cables should have the insulation removed for a maximum length of 5 cms and should then be made and bright for a minimum length of 2.5 cms; and the ends to be joined should be twisted together so as to have a positive metal contact.
	Precautions against stay currents. - Where electrically operated equipment is used in locations having conductive ground or continuous metal objects, hall be made for stray currents to ensure that electrical firing can proceed safely.
	Person incharge to be responsible. - The licensee or a competent person employed by him to be incharge of blasting operations shall take all ations against fire or accident involving explosives.
	Blasting operations in mines. - Nothing in rules 146, 148 to 151 shall apply for blasting operations in mines under the purview of the Mines Act, 1952, ch operations shall be carried out according to regulations, framed under that Act.
154.	Application for licence
, ,	A person desiring to obtain or renew t or amend a licence under these rules shall submit an application in writing the authority empowered to grant, renewend such a licence.
	The application shall be signed by the licensee or applicant himself, as the case may be, or by a person authorised by him in writing in this behalf, and in the latter case, be accompanied by such authorisation.
(3)	Every application for grant of a licence to manufacture explosive shall consist of following:
(a)	An application in Form 3;
(b)	Plans of the proposed buildings and the site drawn to scale. The site plan should show full approach road net work to the factory/or premises;
	A description of situation, character and construction of all mound buildings, (production, non-production, stores, administrative, etc. and safety distances yed by each building;
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(d)	A description of process/work to be carried out in each buildings or part thereof;
(e)	A description of plant and equipment and its location provided in each building or part thereof;
(f)	A description of explosives and ingredients thereof, whether wholly or partially mixed that will be present in any building or machine at any one time.
(g)	A description of maximum number of persons to be employed in each building;
(h)	A description of any special constructions which the applicant may propose by reason of special circumstances, arising from the location, situation or truction of any building or works, or the nature of process or otherwise;
(i)	Prescribed scrutiny fee;
_	In case where application is made in the name of a company, the names and addresses of directors and -partners and the name, address and specimen atures of person or persons authorised to sign correspondence in respect of licence applied for. Any change in such name and addresses should be ediately communicated to the licensing authority.
(4)	Every application for grant of a licence in Form 21, Form 22 or Form 24 to possess explosives for sale or use shall consist of the following
(a)	An application in Form 4 or Form 5, as the case may be;
(b) appro	Plans drawn to scale of the proposed premises and of the site on which such premises are situated. The site plan should clearly show the complete oach road network, nearby landmarks, distances from nearby protected works;
(c)	Drawings of the premises and the mounds, if provided;
(d)	In case where the application is made in the name of the company, the name and addresses of the directors and partners and the name, address and

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specimen signatures of person or persons authorised to sign correspondence in respect of licence applied for. Any change in such name and addresses should be immediately communicated to the licensing authority	
(5)	Application for grant of a licence in form 23 shall consist of the following:
(a)	An application in Form 5 for licence as per preamble (b) and
(c)	Or Form 6 for licence as per preamble (a) of the licence Form 23, as
the c	ase may be;
(b) areas	Plans showing site, location and construction details of tile premises. The site plan should clearly show complete approach road network, surrounding , landmarks and safety distances observed.
(6)	Application for grant of licence in Form 25 for a Road Van shall consist of the following:
(a)	An application in Form 7;
(b)	Drawings of the Road Van showing the complete details of construction and other ancillary equipment provided;
(c)	Prescribed scrutiny fee.
(7)	An application in Form 26, Form 27, Form 28 or Form 29 shall consist of the following:
(a)	An application in Form 8, Form 10, Form 11 or From 12 as the case may be;
(b)	Prescribed scrutiny fee.
(8)	An application for grant of a Shot-firer permit shall consist of the following:

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(a)	An application in Form 9; and
(b)	Prescribed scrutiny fee.
155.	Grant of licence
	A licence may be granted by the authorities specified in Col. (4) of Sch. IV in the Form specified in Col. (2) for the purpose specified in Col. (3) thereof yment of fees specified under these rules:
Provi	ded that no new licence in Forms 20, 21 and 22 shall be granted unless the provisions of rule 156 have been complied with:
Provid	ded further that the licensing authority may waive all or any of the provisions of rule 156, if-
(i) under	The premises proposed to be licensed is within the factory licensed under these rules for manufacture of explosives and the required safety distances are the control of applicant;
(ii) currer	The premises for which the new licence is required are situated within the same survey number, in which the applicant has an existing premises and a nt valid licence for the same and the required safety distances are available within the safety distance of such Existing premises.
of 194 of an	No licence for manufacture of explosives ¹ [* * *] shall be granted or renewed to a person for his factory not registered under the Factories Act, 1948 (63 48), unless he executes a bond in Form 19 in favour of the President of India indemnifying persons injured or dependents of deceased workers in the event accident in the factory ² [an amount of Rs. 10,000/- for factories manufacturing upto 15 kg of gunpowder or fireworks at any one time] an amount of Rs. or factories manufacturing up to 200 kgs., of gunpowder or fireworks at any one time and Rs. 50,000 in every other case;
1.	The words "other than explosives" emitted by G.S.R. 41 (E), dated 15 th January 1988 (w.e.f. 1988)
2.	Ins. by G.S.R. 182 (E), dt. 1991 (w.e.f. 26 th March, 1991)

(2) (a) Licensing authority may grant a licence for the period deemed necessary but not exceeding-

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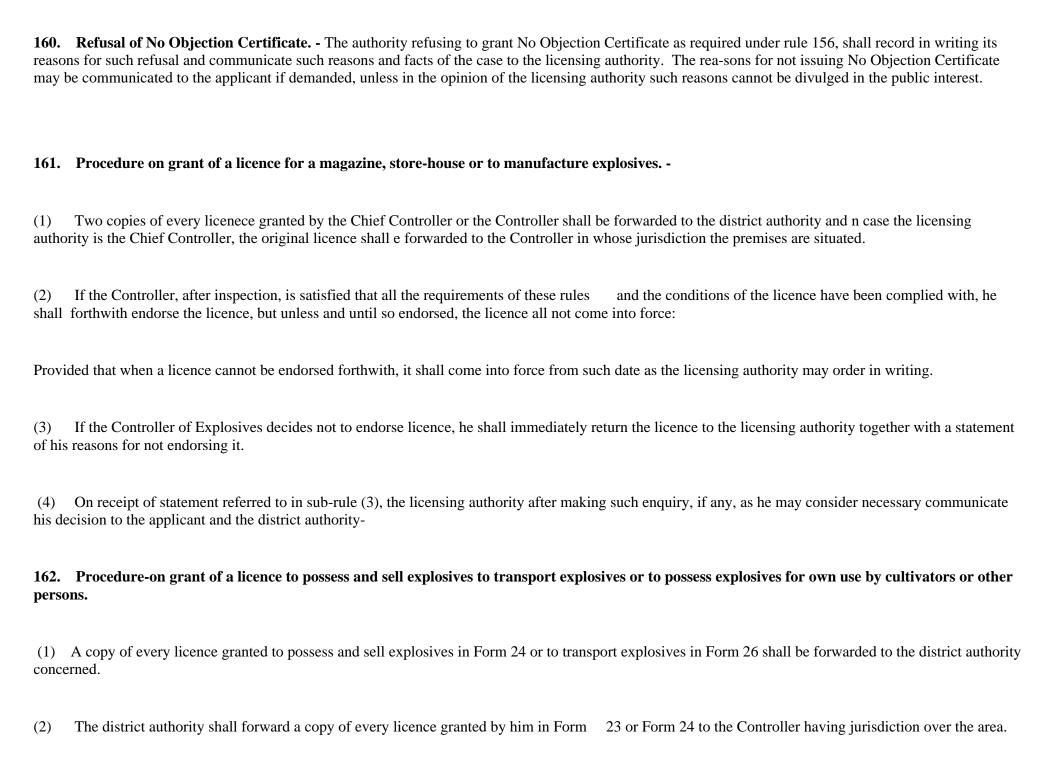
(i)	Six months to import explosives in Form 27 and to export explosives in Form 28;	
(ii)	¹ [3 months] to possess explosives in error, 23 as specified therein;	
1. figur	Subs. by G.S.R. 511 (E), dated 19th June, 1985, published in the Gazette of India, Extraordinary, Pt.II, Sec. 3 (i), dated 25th June, 1985, for the e and word "15 days" (w.e.f. 25th June, 1985).	
(iii)	One month for public display of fireworks in Form 29.	
(b) year i	Every other licence granted or renewed under these rules shall remain in force until the expiry of the financial year immediately following the financial in which it was issued.	
(c) not li neces	Notwithstanding anything contained in Cl. (b), the licensing authority where it is satisfied that a licence is required for a specific work or festival which is kely to last upto expiry of the financial year for which the licence is granted or renewed may grant or renew a licence for such period as is actually sary:	
Provided that the date so specified does not extend beyond the expiry of the financial year following the year in which the licence is granted or renewed.		
	An application for grant of a new licence in Form 24 or Form 29 may apply to the district authority for a certificate to the effect that there is no objection applicant receiving licence for the site proposed and the district authority shall, if he sees no objection, grant such certificate to appellant who shall ard that certificate to licensing authority with his application.	
(4)	The licensing authority, may refer an application not accompanied by a certificate granted under sub-rule (3) to district authority for his observations.	
(5) has b	If the district authority, either on reference being made to him, or otherwise, intimates to the Chief Controller, as the case may be, that any licence which een applied for should not in his opinion be granted, such licence shall not be issued without the sanction of the Central Government.	
(6)	No licence to import explosives shall be necessary in cases where the explosives imported-	

Is not intended to be stored on the port of import but is intended to be transported direct to a territory not being part of India-(i) Can be possessed without a licence under rule 114. (ii) An application for a licence to use explosive shall, if the operation are to be carried on within 100 metres of a railway line, obtain from the railway authority concerned a certificate to the effect that there is no objection to the applicant receiving a licence for the site proposed and forward a certificate to the licensing authority with his application. (8)(1) A cultivator applying for a licence in Form 23, shall obtain a certificate from agricultural field man or a Gram Sewak or any other local authority to the effect that-The certifying authority has inspected the site and is satisfied that the levelling of ground is necessary or removal of tree stumps is necessary or sinking of wells is necessary or sinking of wells has been partly completed, as the case may be; and Further work which is necessary is not possible without blasting and forward the certificate to the licensing authority with his application. (b) A person other than cultivator shall obtain a certificate from local authority having jurisdiction to the effect that the certifying authority has inspected the site and is satisfied that the work for which explosives are required is not possible without blasting. An application for grant of a licence to manufacture Ammonium Nitrate Fuel Oil explosives (ANFO) for own immediate use or to possess for own use liquid oxygen explosives at sites coming under the purview of the Mines Act, 1952, shall be accompanied by a certificate from the Chief Inspector of Mines that the site where such explosives, are to be manufactured, possessed and used is under the control of the applicant and comes under the purview of the Mines Act, 1952, and the applicant is authorised to use liquid oxygen explosives or ANFO explosives and conduct mining operations in the area proposed to be covered by the licence. 156. Procedure to be observed before a licence in Forms 20, 21 or 22 is granted. -A licensing authority on receipt o.' application and the particulars as provided under sub-rule (3) or (4) of rule 154 shall scrutinise the documents and forward to the applicant a statement showing the distances in Form 17 which should in his opinion be kept clear in any, around the factory or magazine premises or any part thereof and from other building and works. On receipt of the statement the applicant shall enter, the exact distance, which can actually be

so kep	t clear, shall sign the statement and shall return it together with any representation which he may desire to make to the licensing right.
	After considering any representation made by the applicant under sub rule (1) and after making such enquiries as deemed necessary, the licensing ity may further scrutinise the application and ask the applicant to make changes considered necessary.
(3)	After receiving correct documents as per requirements of these rules, the licensing authority shall refer the application to-
	The district authority concerned together with a description of enquiries to be carried out, a draft licence and a ,statement in Form 18 showing the ces which he considers should be Kept clear in and around the factory, magazine or store-house;
ii)	Any other authority for such enquiry as deemed necessary.
which give naddres	Upon receipt of the said application the district authority shall forthwith cause notice to be published of such application and of the time and place at he will be prepared to hear it, and calling upon any person objecting to the establishment of the factory or magazine or store-house on the proposed site of such objection to him and to the applicant of not less than seven clear days before the day fixed for hearing the application together with his names and calling and a short statement of the grounds of his objections. The day of hearing the application shall be a day following as soon as practicable, are expiration of the period of one month referred to in sub rule (6).
	Where the site of the proposed factory or magazine lies within 1.5 km. of the limits of the jurisdiction of town planning municipal authority or port ity, the applicant shall prepare, for service for such authority, a notice of the application and of the said day of hearing.
	The notice under sub-rule (4) shall be published and the notice under sub-rule (5) served, at the expense of the applicant by the district authority not less ne month before the said day of hearing.
	On the day fixed for the hearing or any day to which such hearing may be adjourned from time to time, the district authority shall hear an objection red in accordance with sub-rule (4) and by any authority referred to in subrule (5) and shall make such enquiry as he may deem necessary.
	On completion of the enquiry the district authority shall forward the application, statement and plans to the licensing authority together with a report of occdure followed by him and whether he has any objection to the applicant receiving a licence at the site proposed.
(9)	The district authority shall complete his enquiry under subrules (4) to (7) and forward the report to the licensing authority as expeditiously as possible

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out not later than six months of the date of the reference made by the licensing authority.
10) If the district authority objects to the grant of the licence on any of the grounds specified in sub-rule (3), no licence shall be granted by the licensing authority except with the sanction of the Central Government.
(11) Notwithstanding anything contained in this rule, provisions of subrules (3) to (10) except rule 3 (ii) shall not apply in case of an application for grant of a icence to manufacture, possess and sale liquid oxygen explosives or to the manufacture of Ammonium Nitrate Fuel Oil explosives (ANFO) at site of use coming under the purview of the Mines Act, 1952.
257. Procedure to be followed for grant of a licence in Form 22 to possess small quantity of explosives for own use Notwithstanding anything contained in sub-rules (3) to (7) of rule 156, where the licensing authority is the Chief Controller or a Controller and where the quantity of explosive proposed to be possessed for own use under licence in Form 22 does not exceed 100 kgs., the applicant may apply to the district authority together with an application in Form 5, statement in Form 17 and the necessary plans for the grant of a certificate to the effect that there is no objection to the applicant receiving a licence for the site proposed and district authority shall, if he sees no objection after conducting enquiries as required under these rules, grant such certificate to the applicant who may forward it to the licensing authority together with his application.
58. Procedure to be observed for grant of a short-firer is permit
1) The Chief Controller or any authority authorised by him in this behalf shall conduct such examination and enquiries as deemed necessary before granting permit to any shot-firer:
Provided that no examination of the shot-firer may be necessary if the Chief Controller is satisfied, that applicant possesses requisite qualifications and experience.
2) The applicant shall pay prescribed fees for the examination, if any, under sub-rule (1).
59. Procedure on grant of No Objection Certificate by the district authority The licensing authority on receipt of No Objection Certificate from the listrict authority for grant of a licence may make such other enquiries as deemed necessary and take further action for grant of licence:
Provided that if the licensing authority does not receive the No Objection Certificate under rule 156 (8) within the time limit or any extension thereof, such authority may advise the applicant accordingly and take further action as deemed necessary.



163. Particulars of licence. Every 'licence granted under these rules shall be held subject to the observance of these rules and the conditions endorsed on it and shall contain all particulars which are contained in the Form prescribed for it by these rules.	
164.	Amendment of licence
(1) incon	Any licence granted under these rules may be amended by the authority empowered to grant the licence provided that amendment shall not be sistent with the provisions of these rules.
(2)	A licensee who desires to have his licence amended shall submit the following particulars to the licensing authority, namely:
(a)	An application stating nature of the amendment and the reasons therefor;
(b)	The original licence together with enclosures to it;
(c)	Plans showing the details of the proposed amendment if such plans are required by the licensing authority for the purpose of amendment;
(d)	Prescribed scrutiny fee;
(e)	Prescribed amendment fee.
(3) deem	The licensing authority after scrutiny of the documents submitted under sub-rule (2) and after making such further enquiries and taking such action as ed necessary may take suitable action to amend the licence.
165.	Renewal of licence
(1) be rei	A licence may be renewed by the authority empowered to grant such licence provided that a licence, which has been granted by the Chief Controller, may newed without any alteration by a Controller duly authorised by the Chief Controller in this behalf

Provided that a Sub-Divisional Magistrate or an Executive Magistrate or a Taluka Magistrate may renew a licence that has been granted by the district authority without any alteration duly authorised by the district authority in this behalf.	
. ,	The Controller authorised by the Chief Controller under sub-rule (1) may, and when so required by the Chief Controller, shall require the 'licensee to the procedure laid down under sub-rule (1) of rule 156 before renewing licence in Form 20 or Form 21 or Form 22.
30 day	Every application for the renewal of a licence shall be made so as to reach the licensing authority or the authority empowered to renew the licence at least as before the date on which the licence expired, and if the application is so made, the licence shall be deemed to be in force until such date as the licensing ity renews the licence or until an intimation that the renewal of the licence is refused has been communicated to the applicant.
(4)	Every application under sub-rule (3) for renewal of the licence shall accompanied by the following documents:
(i)	Application in Form 13;
(ii)	The original licence together with its enclosures and approved plans, Schedules and Forms;
(iii)	Prescribed renewal fee.
(5)	The same fee shall be charged for the renewal of a licence for each year as for grant thereof:
Provided that if the application for renewal is not received within the time specified in sub-rule (3), the licence shall be renewed only on payment of double fee as ordinarily payable for the licence:	
Provided further that if the renewal application together with complete documents specified under sub-rule (4) is received by the licensing authority after the date of expiry but not later than 30 days from the date of expiry, and if the licensing authority is satisfied that such delay is beyond the control of the licensee, the licence, may, without prejudice to any other action that may be taken in this behalf, be renewed on payment of double the fee ordinarily payable for the licence.	

(6) In case of an application for the renewal of the licence for a period of more than one year at a time, the fee prescribed under proviso of sub-rule (5), if payable, shall be paid only for the first financial year of renewal.		
(7) Every licence granted under these rules other than a licence granted for a specified period shall be renewable for two years where there has been no contraventions of the Act or the rules framed thereunder or of any condition of the licence so renewed.		
(8) Where a licence renewed for more than one financial year is surrendered before its the renewal fee paid for the unexpired portion of the licence shall be refunded to the licensee provided that no refund of renewal fee shall be made for any financial year during which,-		
(a) The licensing authority received the renewed licence for surrender;		
(b) Any explosive is received or stored on the authority of the licence.		
(9) No licence shall be renewed if the application or renewal is received by the licensing authority after 30 days of the date of its expiry.		
(10) When a licence is renewed by the Chief Controller or a Controller, intimation to that effect shall be sent to the district authority concerned and when a licence is renewed by the district authority, an intimation to that effect shall be sent to the Controller having jurisdiction.		
166. Refusal to amend or renew a licence		
(1) The licensing authority refusing to amend or renew licence shall record its reasons for such refusal in writing.		
(2) The licensing authority shall refuse to renew a licence if such licence can be revoked in accordance with the Act or rules framed thereunder.		
(3) A brief statement of reasons for refusal to renew a licence shall be given to the holder of the licence on demand unless in any case the licensing author is of the opinion that it will not be in public interest to furnish such statement.	ity	
(4) Where the renewal of the licence is refused, the fee paid for the renewal shall be refunded to the licensee after deducting the proportionate fee for the period beginning from the date from which the licence was to be renewed upto the date from which renewal thereof is refused.		

167. Suspension and revocation of licence. -

- (1) An order of suspension or revocation of a licence shall take effect from the date specified therein and shall be deemed to have been served if sent by post to the address of the licensee entered in the licence.
- (2) The suspension of a licence shall not debar the holder of the licence from applying for its renewal in accordance with the provisions of rule 165.

168. Procedure on expiration, suspension or revocation of licence. -

- (1) A licensee on the expiration, suspension or revocation of his licence forthwith give notice to the licensing authority of the description and quantity of explosive in his possession and shall comply with any directions which the licensing authority may give in regard to their disposal.
- (2) The licensing authority may grant for a term not exceeding three months from the date of expiration, suspension or revocation, as the case may be, a temporary licence for the possession and sale of the explosives actually held at the time of the issue of the temporary licence.
- (3) The fee chargeable for a licence granted under sub-rule (2) shall bear the same proportion to the fee charged on the expired or revoked licence as the period covered by the temporary licence bears to a full year.

169. Appeals. -

- (1) An appeal against an order of licensing authority refusing to grant or renew a licence or suspending or revoking a licence or varying the conditions of a licence shall lie-
- (i) If the order is passed by the Chief Controller to the Central Government; and
- (ii) If the order is passed by the Controller to the Chief Controller.
- (2) Every appeal shall be preferred in accordance with provisions of the Act, and shall be presented within 30 days of the date of the communication of such file:///Dl/Created by Skorydov/EXPLOSIVE%20RULES%201983.htm (85 of 242) [7/20/2001 1:09:20 PM]

order.	
(3) Every appeal shall be accompanied by fees specified in rules 176 and 177 and the fees shall be refunded to the appellant if the appeal is upheld by the appellate authority.	
(4) Appeal against the order of the district authority-refusing grant of No Objection Certificate shall lie with the authority immediately superior to such authority. Such an appeal shall be filed in accordance with the procedure laid down by such appellate authority.	
170. Procedure to be followed by the appellate authority On receipt of the appeal and if such appeal can be admitted in accordance with the Act, the appellate authority may call for records of the case from the authority who passed the order appealed against and may make such further enquiries as it may deem necessary and after giving the appellant a reasonable opportunity of being heard, pass final orders.	
171. Procedure on death or disability of licensee	
(1) If a licensee dies or becomes insolvent or mentally incapable or otherwise disabled the licence granted to him under these rules shall stand cancelled on the date of licensee's death or his mental incapability or his insolvency or disability.	
(2) The legal heirs or representatives of the licensee referred to in sub-rule (1) shall as soon as may be, notify the licensing authority and (a) the date of -death, insolvency, mental incapability or other disability,	
(b) The stock of all explosives kept at the licensed premises and shall await the directions of the licensing authority with regard to the disposal of such explosive.	
172. Loss of licence Where a licence granted under these rules or an authenticated copy thereof granted under rule 173 is lost or accidentally destroyed, a duplicate may be granted on payment of fees, specified in rules 176 and 177.	
173. Production of licence or pass on demand	
(1) Every person holding or acting under a licence granted under these rules shall, when called upon to do so by any officer specified in sub-rule (1) of rule 179, 'produce it, or an authenticated copy of it, at such time and place as may be directed by such officer.	

(2) by an	Every person in charge of a consignment of explosives in transit under cover of a pass issued under these rules shall produce it when called upon to do so by officer specified in sub-rule (1) of rule 179.
(3)	Copies of any licence may, for the purposes of this rule, be authenticated free of charge by the authority, which granted the licence: -
	Executive control over authorities. - Every authority other than the Central Government acting under this chapter shall be subject to the directions and of the Central Government:
Provi	ided that nothing in this rule shall be deemed to effect the powers of executive control of the Chief Controller over the officers subordinate to him.
	CHAPTER VIII
	Fees
175.	Procedure for payment of fees The fees payable under these rules shall be paid in the following manner-
-	Fees payable to Chief Controller shall be paid by a Crossed Postal Order, or a Crossed Bank Draft drawn in favour of Chief Controller of Explosives, our. The Bank Draft should be drawn on any nationalized bank and payable at Nagpur. Fee upto Rs. 100 in each case, may also be paid in cash at the office e Chief Controller.
(2) Fees payable to a Controller of Explosives shall be paid by a Crossed Postal Order or a Crossed Bank Draft drawn in favour of the Controller of Explosives to whom the payment is made. The Bank Drafts shall be on any nationalised bank payable at the station where office of Controller to whom payment is to be made is located. Fees upto Rs. 100,in each case, may also be paid in cash at the office of Controller concerned.	
(3)	Fees payable to District Authority or any other authority under these rules shall be paid in such manner as may be specified by that authority.
176.	Fees' other than licence fees The following fees other than licence fees shall be payable under these rules:

(1)	For inclusion of any explosive in the authorised list of explosive (see	
<u> </u>	rule 6)	
	(i) Scrutiny fee for each proposal	Rs. 50.00 Rs. 200.00
	(ii) Testing fee for each sample of explosives.	
(2)		D 10.00
(2)	To test each sample for imported explosives (See rule 28).	Rs. 10.00
(3)	(i) For testing each sample to issue certificate of safety in Form 1 (see	Rs. 10.00
	rule 34);	Rs. 5.00
	(ii) To renew each certificate issued under (i) above without fresh test;	7.00
	(iii) For testing each sample to renew certificate issued under any above	
	after fresh test.	Rs. 100.00
(4)		D 20.00
(4)	Scrutiny fee for approval of manufacturing process for any new explosives (see rule 89).	Rs. 20.00
(5)		
(5)	For storage of explosives in excess of Capacity at any one time (see rule 126).	Rs. 200.00 for first 15 days and Rs. 100.00 for every additional 5 days or part thereof.
		, and the same of
(6)	For permit for temporary possession of fire works in excess of licensed	Rs. 50.00
(0)	quantity(see rule 127).	16.00

(7)	Scrutiny fee for application for grant of a licence to manufacture [see sub-rule (3) of rule 154]		
	(i) Any explosive other than those mentioned under (ii), (iii), (iv) and (v) below;	Rs. 200.00 Rs 50	0.00
	(ii) Site mixed ammonium nitrate and fuel oil explosives;	Rs. 50.00	Rs. 20.00
	(iii) Liquid Oxygen explosive		
	(iv) (a)Fire works and/or gunpowder in a quantity not exceeding 12.5 kgs. at a time-	Rs. 100.00	
	(b) Fireworks and/or gunpowder in a quantity exceeding 12.5 kgs. but not exceeding 200 kgs. at a time;	Rs. 200.00	Rs. 200.00
	(c) Fireworks and/or gunpowder in a quantity exceeding 200 kgs. at a time		
	(v) Coloured matches.		
(8)	Scrutiny fee for application for grant of each licence to import or export explosive [see sub-rule (7) of rule 154].	Rs. 100.00	
(9)	Scrutiny fee for application for grant of each licence to transport explosives (see sub-rule (7) of rule 154].	Rs. 20.00	
(10)	Scrutiny fee for each application for grant of a licence for a road van [see sub-rule (8) of rule 154].	Rs. 50.00	
(11)	Scrutiny fee for each application for grant of a Shot-Firer's Permit [see sub-rule (9) of rule 154]	Rs. 5.00	
(12)	For examination for grant of a Shot-Firer's Permit [see rule 158].	Rs. 20.00	
(13)	(a) Scrutiny fee for application for amendment of each licence [see rule 164]-		

	(i) To manufacture any explosives other than fire-works and/or gunpowder in a quantity not exceeding 12.5 kgs, at a time;	Rs. 50.00
	(ii) To manufacture fireworks and/or gun-powder in a quantity not exceeding 12.5 kgs.at a time;	Rs. 50.00 Rs. 20.00 Rs. 5.00 ¹ [(free of charge
	(iii) In any other form other than Form 23;	to
	(iv) In Form 23;	cultivators].
	(b) Amendment fee for each licence (see rule 165)-	
	(i) Other than a licence in Form 23 or a licence in Form 20 to manufacture fire-works and/or gunpowder in a quantity not exceeding 12.5 kgs. at a time;	Rs. 30.00
	(ii) In Form 23;	Rs. 5.00 ¹ [(free of Charge to cultivators] Rs. 5.00
		Rs. 50.00 . Rs. 100.00
	(iii) To manufacture fireworks and/or gun-powder in a quantity not exceeding 12.5 kgs. at a time;	
	(c) Scrutiny fee for a proposal for any change in the manufacturing process of explosives.	
	(d) Scrutiny fee for a proposal for any change in the composition of an authorised explosive.	
(14)	For appeal against an order of a licensing authority (see rules 169 and 178)-	Rs. 100.00
	(i) If such appeal is preferred to Central Government or Chief Controller;	
	(ii) If such appeal is preferred to immediate superior to district authority.	Free of charge.
(15)	For issue of a duplicate copy of license (see rule 172).	Rs. 50.00

(16)	For approval of-	Rs. 500-00 Rs. 500-00 Rs. 500.00
	(a) A packing box or container-,	Rs. 50.00
	(b) A new (design of equipment, machinery or Composite vehicle used for manufacture and transport of explosives;	
	(c) A magazine "Mode B".	
17	Lighting Conductor testing fee for each test.	Rs. 500.00

Added by G.S.R. 511 (E), dated 19th June, 1985, published in the Gazette of India Extraordinary, Pt. II Sec. 3(i) dated 25th June, 1985 (w.e.f 25th June, 1985).

177. Licence fee. –

(b) Of class 6 (Form Rs. 250.00 per one million meters/numbers or Rs. 50	
· · · · · · · · · · · · · · · · · · ·	

(c) Of class I and/or class 7 (Form 20);	
(i) In a quantity not exceeding ¹ [15] kgs. at (ii) In a quantity exceeding ¹ [15] kg but time not exceeding	Rs. 20.00 Rs.200-00
200 kgs. at a time; (iii) In quantities exceeding 200 kgs. at a time;	Rs. 200.00 for the first two kgs.plus Rs 150.00 for every additional 50 kgs.or part thereof at a time subject to a maximum of Rs.5000.00.
(d) Of class 8;	Rs.1000.00
(ii) To possess and sell explosive (licence Forms other Form 24); (iii) To possess explosives for use (Licence Forms other than Forms 23 and 29);	Rs.200.00 (a) Rs.150.00 for every 1000 kgs. Or part thereof of the licenced capacity of each explosive of class 1,2,3,4,5,6,7 or 8subject to a maximum of Rs. 5000.00. (b) Rs. 50.00 for every 10000-meters/ numbers of each explosives of class 6 subject to a maximum of Rs. 5000.00. (a) Rs. 100.00 for every 1000 kgs. or part thereof of the licensed capacity of each explosives of class 1,2,3,4,5,7 or
	explosives of class 1,2,3,4,5,7 or 8 subject to a maximum of Rs.5000.00; and (b) Rs. 40.00 for every 10000 meters/ numbers or part thereof or each explosives of class 6 subject to a maximum of Rs.5000.00

(2) The following fees shall be payable for each licence to-	Rs. 250.00	Rs.
(i) Import explosives (Form 27);	150.00 100.00	Rs. Rs. 10.00
(ii) Export explosives (Form 28);	³ [free of charge to c	cultivators]
(iii) Possess and use public display fire-works (Form 23);		
(iv) Possess for own use explosives (Form 23)		

- 1. Subs by G.S.R.41 (E), dated 15th January 1988, for the figures "12.5" (w.e.f. 8TH January, 1988)
- 2. As printed in the Gazette of India, Extraordinary, Pt.II Sec. 3(i), dated 2nd March, 1983.
- 3. Added by G.S.R. 511 (E), dated 19th June 1985, published in the Gazette of India, Extraordinary, Pt. II, Sec. 3 (i), dated 25th June, 1985 (w.e.f. 25th June, 1985).

CHAPTER IX

Power of Officers and Penalties

178. Dangerous practices. -

- (1) If in any matter which is not provided for by any express provision of, or condition of a licence granted under these rules and a Controller finds any factory, magazine or place where an explosive is being manufactured, possessed or sold or used or any part thereof or any thing or practice therein or connected therewith or with the handling or transport of explosives to be unnecessarily dangerous or defective so as, in his opinion to tend to endanger the public safety or the bodily safety of any person, such Controller may, by an order in writing, require the occupier of such factory magazine, store-house or place or the owner of the explosive, to remedy the same within such time as may be specified in the order.
- (2) Where the occupier or owner objects to an order made under sub-rule (1), he may appeal to the Chief Controller within the time specified in the order and the order of the Chief Controller on such appeal shall be final.
- (3) Every appeal preferred under sub-rule (2) shall be in writing and shall be accompanied by a copy of the order appealed against.

(4) If the occupier or owner fails to comply with an order made under sub-rule (1) within the time specified in it or where an appeal is preferred under sub-rule (2), fails to comply with the order of the Chief Controller thereon with the time fixed in such order, he shall be deemed to have committed a breach of the rule.

179. Powers of search of seizure. -

- (1) Any officer specified in Col. (1) of the Table below may within the areas specified in the corresponding entry in Col. (2) of that Table: -
- (a) Enter, inspect and examine any place, aircraft, carriage or vessel in which an explosive is being manufactured, possessed, used, sold, transported, exported or imported under a licence granted under these rules, or in which he has reason to believe that on explosive has been or is being manufactured, possessed, used, sold, transported, exported or imported in contravention of the Act or these rules;
- (b) Search for explosives or ingredients thereof;
- (c) Take samples of any explosive or ingredients found therein free of charge; and
- (d) Seize, detain and remove any explosive or ingredients thereof found therein together with connected documents thereof in respect of which he has reason to believe that any of the provisions of the Act or these rules have been contravened.

TABLE

Officers Areas (1) (2)

The Chief Controller and All parts of India.

Controller of Explosives Their respective districts.

All District Magistrates Their respective jurisdictions.

All Executive Magistrates subordinate to the District

Magistrate

All Commissioners of Police and

Police Officers of rank not below that of ¹[Sub4nspector or Police]
The Chief Inspector of Mines and officers subordinate to him

The area over which their authority extends.

The respective areas over which their authority extends.

1. Subs, by S.O. 814 (E), dated 6th October 1989.

- (2) Whenever any officer other than the Chief Controller seizes, detains or removes any explosive or ingredients thereof or any connected document thereof under this rule, he shall forthwith report the fact by telegram to the Chief Controller and the Controller under whose jurisdiction the place where the explosives were seized falls and when ever any officer not being the district authority seizes detains or removes any explosives or ingredients thereof or any connected documents thereof under this rule he shall forthwith report the fact by telegram to the district authority concerned.
- (3) Whenever any explosives are seized they shall be stored up in an isolated place under adequate guard until examination by Chief Controller or Controller and receipt of instructions from him as to their disposal.

180. Power to destroy explosives and ingredients thereof-

- (1) The Chief Controller or a Controller. -
- (a) Shall destroy any explosive, whenever found-
- (i) The manufacture, possession or import of which has been prohibited absolutely under Sec. 6 of the Act; or
- (ii) If the explosive belong to the 5th (Fulminate) class and is being manufactured, possessed, used, sold, transported, exported or imported illegally without a licence under these rules; -
- (b) May destroy or render harmless any other explosives, or ingredient thereof in respect of which the Chief Controller or Controller has reason to believe that any of the provisions of the Act or these rules have been contravened or which in his opinion are no longer fit for storage, transport or use and the matter appears to be urgent to such Controller and fraught with serious danger to public.

(2) Whenever the Chief Controller or a Controller destroys any explosive or

ingredient thereof or renders it harmless under sub-rule (1), he shall take and keep a sample thereof provided if in his opinion such sample can be taken, transported and keep safely for the period required without any danger to any life or property and if required, give a portion of the sample to the person owning the explosive or having the same under his control at the time of seizure.

- (3) Where any explosive or ingredient thereof is destroyed by a Controller, he shall report all the facts to the Chief Controller. The explosives shall be destroyed or rendered harmless as provided under this rule at the expense of the occupier of factory, magazine, storehouse or place of the owner of the explosives.
- **181. Procedure on reports of infringement.-** Whenever any report is made to the district authority by the Chief Controller or Controller of an infringement of the Act or of these Rules district authority shall take immediate action and shall inform the Chief Controller or the Controller, as the case may be, of the action taken by him on such report.

CHAPTER X

Accidents and EnQuiries

- 182. Notice of accident. The notice of an accident required to be given under Sec. 8 (1) of the Act shall be given forthwith-
- (a) To the Chief Controller of Explosives by Express telegram (Telegraphic address EXPLOSIVES, NAGPUR) followed within 24 hours by a letter giving particulars of the occurrence;
- (b) Controller of Explosives in whose jurisdiction accident has taken Place; and
- (c) To the Officer-in-charge of the nearest Police Station; pending the visit of the Chief Controller, or his representative, or until instructions are received from the Chief Controller or his representative that he does not wish any further investigation or inquiry to be made, all wreckage and debris shall be left untouched except in so far as its removal may be necessary for the rescue of persons injured, and recovery of the bodies of any persons killed, by the accident or in the case of aerodromes or railways, for the restoration of through communication.

183. Procedure at courts of inquiry.-

- (1) The Chief Controller shall arrange with the Heads of Armed Forces or Ordinance Factories or other establishments of such forces to be represented at Courts of Inquiry where he so desires. The Chief Controller shall be provided with copies of the proceedings of Court where he is not represented. The Heads of Armed Forces or Ordinance Factories or other establishments of such forces, as the case may be, shall co-operate with the Chief Controller by informing him immediately of occurrences, liable to lead to the summoning of Courts of Inquiry on matters of interests to the Chief Controller as indicated by him.
- (2) The Chief Controller may attend in person or send a representative and in either case he shall have power to examine, witnesses, where he so desires.

184. Inquiry into accident. -

- (1) Whenever a District Magistrate, a Commissioner of Police or a Magistrate subordinate to a District Magistrate holds an inquiry under Sec. 9 (1) of the Act, he shall adjourn such an inquiry unless the Chief Controller or an officer nominated by him is present to watch the proceedings or the Magistrate has received information from the Chief Controller that officer does not wish to send a representative.
- (2) The Magistrate shall, at least 21 days before holding the adjourned inquiry, send to the Chief Controller notice in writing of the time and place of holding the adjourned inquiry.
- (3) Where an accident has been attended with loss of human life the Magistrate, before the adjournment, may, take evidence to identify any bodies and may order the disposal thereof.
- (4) The Chief Controller or his representative shall be at liberty at any such inquiry to examine any witnesses subject to the order of the Magistrate on points of law.
- (5) Where the Chief Controller is not present or represented at any inquire held by a District Magistrate or a Commissioner of Police or a Magistrate -subordinate to District Magistrate a copy of the report of the proceedings thereof shall be sent to him.

185. Inquiry into more serious accidents. -

(1) Whenever an inquiry is held under Sec. 9-A of the Act the persons holding such inquiry shall hold the Same in open Court in such manner and under such conditions as they may think most effectual for ascertaining the causes and circumstances of th-e accidents and enabling them to make the report under this rule:

Provided that where the Central Government so directs the inquiry may be held in camera.
Whenever an inquiry under sub-rule (1) is held by a person other than the Chief Controller, such person shall arrange for the Chief Controller to be epresented at such inquiry including any adjournment thereof. The person holding the inquiry shall, it least '21 days before holding the inquiry or any djourned inquiry, send to the Chief Controller a notice in writing of the time and place of holding such inquiry. The Chief Controller may attend in person or end a representative and in either case, he shall have power to examine witnesses where he so desires.
Person attending as witness before this Court shall be allowed such expenses as are payable to witnesses attending before a Civil Court subordinate to the High Court having jurisdiction in the place where the inquiry is held. In case of dispute as to the amount to be allowed the question shall be referred to the local Magistrate who, on request by the Court shall ascertain and certify the proper amount of such expenses.

(4) All expenses incurred in relation to an inquiry or investigation under this rule shall be deemed to be part of the expenses of the Department of the Explosives.

186. Repeal and savings. - The Explosives Rules, 1940, are hereby repealed.

- (2) Notwithstanding such repeal-
- (i) All licenses or duplicates thereof granted or renewed under the said rules and all fees imposed or levied shall be deemed to have been granted, renewed, imposed or levied, as the case may be, under the corresponding provisions of these rules; and
- (ii) All approvals given and all powers conferred by or under any notification or rule shall, so far as they are consistent with the Act and these rules, be deemed to have been given or conferred by or under this Act or these rules.

SCHEDULE I

Classes of Explosives

(See rule 3)

Explosives are divided into 8	3 classes as follows
Class 1	Gun-powder
Class 2	Nitrate-mixture
Class 3	Nitro-compound
Class 4	Chlorate-mixture
Class 5	Fulminate
Class6	Ammunition
Class 7	Fireworks
Class 8	Oxygen Explosives Liquid

Class 1 - Gunpowder Class

"Gunpowder" means gunpowder or ordinarily so called.

Class 2 - Nitrate Mixture Class

"Nitrate-mixture" means any preparation, other than gunpowder, which is formed by the mechanical mixture of a nitrate with any form of carbon or with any carbonaceous substance not possessed of explosives properties, whether sulphur be or be not added to such preparation, and whether such preparation be or be not mechanically mixed with any other non-explosive substance, and includes any explosive containing a Perchlorate and not being a chlorate mixture fulminate or nitro-compound as defined in this Schedule.

Class 3 - Nitro-compound Class

- (1) "Nitro-compound" means any chemical compound which is possessed of explosive properties or is capable of combining with metals to form an explosive compound, and is produced by the chemical action of nitric acid (whether mixed or not, with sulphuric acid), or of a nitrate mixed with sulphuric acid, upon any carbonaceous substance, whether such compound is mechanically mixed with other substances or not.
- (2) The Nitro-compound class has two divisions, namely, Division 1 and Division 2.
- (3) Division 1, comprising any chemical compound or mechanically mixed preparation which consists, either wholly or partly, of nitroglycerine or some

other l	liquid nitro-compound that is such explosives as Ballistite Blasting Gelatine, Cordite, Dynamite, Gelatine Dynamite, Gelignite, etc.
. ,	Division 2 comprising any nitro-compound, which is not, comprised in Division 1 that is explosives such as Ammonal, E.C. Sporting Powder, gun, Picric Acid, Smokeless Diamond, Trinitro-toluol (T.N.T.) etc.
	Class 4 - Chlorate mixture Class
(1)	"Chlorate-mixture" means any explosive containing a chlorate.
(2)	"Chlorate-mixture class has 2 divisions, namely, Division 1 and Division 2.
(3)	Division 1, comprising any chlorate preparation, which consist partly of nitro glycerine or of some other liquid nitro-compound.
(4)	Division 2, comprising any chlorate mixture which is not comprised in Division 1.
	Class 5-Fulminate Class
(1)	"Fulminate" means any chemical compound or mechanical mixture whatever,
	which from its great susceptibility to detonation, is suitable for employment in percussion-caps or any other appliances for developing detonation, or from its extreme sensibility to explosion, and from its great instability (that is to say, readiness to undergo decomposition from very slight exciting s), is specially dangerous.
(2)	The Fulminate class consists of two divisions, namely, Division 1 and Division 2.
percus withou	Division 1, comprising such compounds as the Fulminate of silver and of mercury, and preparations of those substances, such as, are used in scion-caps, and any preparation consisting of a mixture of chlorate with phosphorous, or certain descriptions of compounds of phosphorous, with or at the addition of carbonaceous matter, and any preparation consisting of a mixture of a chlorate with sulphur or with sulphur, with or without naceous matter.

(4) Division 2, comprises such substances as the chloride and the Iodide of Nitrogen, Fulminating Gold and Silver, Diazobenzol and the Nitrate of Diazobenzol, Lead Azide and Tetrazine.
Class 6 - Ammunition Class

- "Ammunition" means an explosive of any of the foregoing classes when the same is enclosed in any case or contrivance, or is otherwise adapted or prepared so as to form (a) a cartridge or charge for small arms, cannon or any other weapon, or (b) a safety or other fuse for blasting or for shells, or (c) a tube for firing explosive, or (d) a percussion-cap, detonator, for signal, shell, torpedo, war rocket or any other contrivance other than a fire work.
- (2) The ammunition class has three divisions, namely, Division 1, Division 2 and Division 3.
- (3) Division 1, comprises exclusively of (i) Safety cartridges, (ii) Safety fuses for blasting, (iii) Railway fog signal, and (iv) Percussion-caps.
- (4) Division 2, comprises any ammunition, which does not contain its own means of ignition and is not included in Division 1, such as, cartridges for small arms other than safety cartridges, cartridges and charges for cannon shells and torpedoes containing any explosives, tubes for firing explosives, and war rocket, which do not contain their own means of ignition.
- (5) Division 3, comprises any ammunition which contains its own means of ignition and is not included in Division 1, such as, detonators, fuses for blasting which are not safety fuses, tubes for firing explosives, containing their own means of ignition.

Note. - The expression "ammunition containing its own means of ignition' means ammunition having an arrangement, whether attached to or forming part of the ammunition which is adapted to explode or fire the ammunition by friction or percussion. 'Percussion-cap" does not include a detonator.

Class 7-Fireworks Class

- (1) ¹[Fireworks Class has four divisions, namely, Division 1, Division 2, Division 3, and Division 4.1
- 1. Subs. by G.S.R. 890 (E) dated 7th October, 1989.

(2) Division 1, comprises of fireworks composition that is to say, any chemical compound or mechanically mixed preparation of an explosive of inflammable nature, which is used for the purpose of making manufactured fireworks, and is not an explosive of Classes 1, 2, 3, 4, 5 and 6 any star and any coloured fire composition:

Provided that a substantially constructed hermetically closed metal case, containing not more than 5 coloured fire composition of such a nature as not to be liable to spontaneous ignition shall be deemed to be 'a manufactured firework" and not a "firework composition."

- (3) Division 2 ire works comprises manufactured fireworks, i.e. to say any explosive of Class 1,2,3, 4 or 6 and any fireworks composition when such explosive or composition is enclosed in any case or contrivance or other articles specially adapted for the production of pyrotechnic effect for pyrotechnic signal or sounds signals.
- (4) Division 2 fireworks comprise 3 sub-divisions, namely, Sub-division 1, Subdivision 2 and sub-division 3.
- (5) Sub-division I of Division 2 firework comprises low hazard firework, which, in the opinion of Chief controller are relatively innocuous in themselves and are not liable to explode violently or all at once, e.g. ¹[If sparklers, Chinese crackers, serpents etc.]
 - 1. Subs. by G.S.R. 890 (E), dated 6th October, 1989.
- (6) Sub-division 2 of Division 2 fireworks comprises high hazard firework which, in the opinion of Chief Controller, present a special hazard to a person e.g. rockets, [* * *]² shells, maroons, wheels, barrages, fountains, illumination pices, distress signals, etc.

2. Omitted by ibid.

(7) Sub-division 3 of Division 2 fireworks comprises such firework, which are assembled at site purely for the purpose of display.

Class 8- Liquid Oxygen Explosives Class

"Liquid Oxygen Explosives" means an absorbent carbonaceous material such as wood pulp, carbon black, metal powder, coal dust, etc. impregnated with liquid air or liquid oxygen with or without the addition of other substances.

SCHEDULE-II

Packing of Explosives

(See rule 8)

(1) In this Schedule unless the context otherwise requires-
The expression "outer package" means a box, barreal case or cylinder of wood, metal, or other solid material, of such strength, construction and character as not be liable to be broken or accidentally opended or to become defective or insecure or insecure or to show an explosive to escape;
The expression "inner package" means a substantial case, bag, cansister, or other receptacle, made and closed so as to prevent any explosive from escaping;
Wherever an explosive is distinguished as belonging to a particular or division of a class, the reference is to the classification specified in Schedule I;
Expression "propellant" means an authorised explosive of the 3rd (Nitro Compound) Class adapted and intended exclusively for use, as a propelling charge in cannot or small arms.
(2) The interior of every package shall be free from grit and otherwise clean.
(3) Save as provided in the table appended to this Schedule there shall be no iron or steel in the construction of any package unless the same is covered with suitable material so as effectively to prevent the exposure of such iron or steel.
(4) A package when actually used for the packing of one explosive shall not be used for the packing of any other explosive or of any other article or substance:

(a) The packing in the same outer package of inner packages containing a propellant together with inner packages containing gun powder or another file:///DI/Created by Skorydov/EXPLOSIVE%20RULES%201983.htm (103 of 242) [7/20/2001 1:09:21 PM]

Provided that nothing in this clause shall be deemed to prohibit-

oropella oropella	ant; or the packing in the same outer package of inner packages containing a propellant together with inner packages containing gun powder or another ant; or
xplosiv	The packing in the same package of any article which is not of an flammable or explosive nature; or liable to cause fire or explosion together with an over of the lst Division of the 6th (Ammunition) Class. additional package, whether inner or outer, of a character not expressly prohibited in writing by the ontroller.
6) U	Use of metal bands wires on packages is prohibited unless specifically authorised by the Chief Controller in relation to packing of any explosives.
7) M herewit	Material of which the packages and their closures are made must not be liable to attack by the contents and form harmful or dangerous compounds th.
ranspor	Packages must be sufficiently rigid and strong in all their parts to prevent any loosening during transport and to meet normal requirements of such ret. Solid substances shall be firmly secured in their packages, and inner packages shall be firmly secured in outer packages. Unless otherwise specified ackages may be enclosed in outer packages, either single or in groups.
9) C	Cushioning material, if used, shall be suited to the nature of the contents of the packages.
10) A xplosiv	an explosive that is not authorised explosive shall be packed in such a manner as may be directed by the Chief Controller with reference to such re.
11) (a	a) The outer package shall be used only once for packing and transport of explosives.
	hen the explosive contained in outer package are removed there from, the outer package shall be destroyed or disposed of in such a manner that cannot ed for any purpose.
g,/Cm.	Where metal boxes are used, they shall be fitted with closures or safety devices yielding when the internal pressure reaches a value not greater than 3. Such closures or safety devices shall not impair the strength of metal boxes. Boxes made of zinc sheet or aluminium shall be completely lined with a fibreboard.

TABLE

Item No	Class	Method of packing	Amounts in any one Outer packag	Amount in any geone inner package
(1) 1.	(2) Class 1	(3) When the quantity in any consignment does not exceed 2.5 kg, A single outer package	(4)	(5)
		When the quantity exceeds 2.5 kg. a double package, the inner packages being as defined in Cl. (1) of this Schedule. Inner packages if made of metal shall be secured by cushioning	50 Kgs. 2.5 Kgs Provided that where and outer gunpowder and propellants are packed together the amount shall not exceed.	
			2.5 Kgs. Kga.	2.5
2.	Class-2	The material except site mixed Ammonium Nitrate Fuel Oil explosive shall be suitably cartridge in wrappings made of suitable plastic material or papers so as to make it impermeable an protect from damp. Further packing as for class I	2.5 Kgs.	2.5 Kgs.
3.	Site mixed Ammonium Nitrate Fuel Oil mixture (ANFO)	As approved by Chief Controller		

4.	Class 3 Division I other than propellants	The material shall be cartridge in wrappings made of paper or poly-	25 Kgs.	2.5 Kgs.
		Protect the material from damp. Further packing as for Class 1, provided that either the outer or inner package shall be thoroughly		
		water-proof and no metal shall be used in the construction of the packages, except that (1) nails made of brass, zinc or other soft		
		metal or coated with the same may be used for securing the outer package, and (2) wire stitching may be used for securing the inner package if the wire is effectively prevented from coming into contact with the explosive by means of the sheet of stout cardboard or otherwise.		
5.	Class 3	As for Class 1	25 Kgs.	25 Kgs.
	Division 1 Propellants.			
6.	Class 3 Division2 other than Picric Acid, Wet Gun Cottor Penta Erythritol Tet- ranitrat RDX, Teri nitro Resorcinol (Styphinic Acid)	ı	25 Kgs.	25 Kgs
7.	Picric Acid	As for Class 1	Unlimited	Unlimited
8	Gun Cotton so wetted with the water as to be uninflammable.	As for Class 1, provided that inner or outer package or both of them shall be of such nature, and so closed, as to prevent any material loss of moisture.		

9.	(P.E.T.N. Pen- thrite)	shall be polythene bag closed at the top with twine thread and place in a bright tin container. Both the bag and the tin container shall be so closed as to prevent any material loss of moisture. The outer package shall as defined in Cl. (1) of the Schedule and so closed as to prevent any material loss of moisture. As for PETN As for Class 1, provided that Trinitro		11.25 Kgs. (dry basis)
10.	RDX		22.5 Kgs. (dry basis)	11.25 Kgs. (dry basis)
11.	Tri-Nitro Resor -cinol (styphnic Acid)		25 Kgs. of wet explosive	25 Kgs. of wet explosives
12.	Class 4	As for Class3, Division 1, other than propellants	25 Kgs.	2.5 Kgs
13.	Division 2 Class 4	• •	25 Kgs.	2.5 Kgs.
14.	Division 2 Class 5	The explosives shall be packed wet containing not less than 25% water, and shall in this condition be enclosed in a treble package; the inner most package; containing the wet explosive shall be a bag of heavy cotton cloth or other suitable material of close mesh but permeable to water; the intermediate package shall contain all the individual packages and sufficient water to keep the explosive in them constantly wet, and may, consistent with the requirements of the security of the whole package, be in the form of a rubber bag, or of a case, or of such special lining to the other packages as will efficiently attain is object, and it must itself be constantly surrounded by or saturated with water, the outer	100 Kgs.	12.2 Kgs

package containing sufficient water constantly to surround the case. Both the intermediate package and the outer package shall be of such construction and material as will not allow water to escape. If the explosive is of such character that it cannot be packed in a thoroughly wet condition, it shall be Packed in accordance with conditions prescribed by the Chief Controller.

15

Class6, Division1, other than A gingle outer package Provided that Unlimited Pin fire cartridges for Pistol. Cl. (3) of this Schedule shall not apply to explosives of this Division

> Provided also that bulleted cartridges of a calibre exceeding 1.27 cm. and belonging to this Division shall be packed in such a manner that the point of any bullet cannot come in contact with the cap of another, cartridge.

16.

- Pin-fire cartridges for pistols (a) Not exceeding 50 in number in 50 in 50 in number any one consignment. So packed number in a single package that the bases he alternately in opposite directions. The bases and pins shall be so fitted into Perforations in millboard or other' suitable material as to prevent the firing of anyone of the said cartridges by an explosion in any other of the said cartridges.
 - (b) Exceeding In an inner and outer 2500 in number 50 in number. package, the cartridges being packed in inner packages with millboards as above required.

17.	Class 6 Division 2	Explosives made up into cartridges or charges for cannon, shells, torpe does, mines, blasting or other like purposes shall be packed in such manner and in such, quantity as is required for the same explosive when not so made up: Provided that, where a double package is required, the enclosing case of such cartridges or charges may, if it satisfied the conditions required for an inner package, be deemed to be such inner package. Other ammunition of this Division-		
18.	Class 6, Division 3, other than Detonators Electric Detonators	A single outer package As for Class 1: Provided that bulleted cartridges of a calibre exceeding 1.27 cm. and belonging to this Division shall be packed in such a manner that the point of any bullet cannot come in contact with the cap of another cartridge		1Kg. Or 10 in number which ever be the greater and
19.	Detonators	(a) Not exceeding 1, 000 in any one consignment. As for Class 1, provided that the detonators and the spaces between the same and between the sides of the inner package and the said detonators shall all be filled as far as practicable, with fine sawdust or other similar material; a layer of felt or other safty yielding material shall be placed between both ends of all the detonators and the interior of the inner package in which the same are placed, in such manner and so secured, that both ends of the detonators will rest upon the said cotton wool or other material, every inner package, if of metal to be fined throughout with the paper or other soft material.	100 in number	100 in number

(b) Exceeding 1,000 detonators. The 1
detonators shall be packed in inner
packages, with sawdust and cotton wool
as above described. Such inner package
shall be placed inside a substantial case
of wood or metal, made and closed so as
to prevent any of the inner packages
escaping therefrom, and such case shall
be placed inside an outer package in
such manner and so secured as to leave
a clear space of not less than 7.5 cm.
between the case and every part of the
interior of the said outer packages, not
withstanding that such clear space may,
if preferred be filled with sawdust, straw
or other similar material or may contain
a fight framework or battens of wood to
keep the case aforesaid in position in the
outer package

(c) Where the number of detonators exceeds 5,000 such outer packages shall

10,000 in number 1,000 in number outer package.

20. **Electric Detonators** be provided with handles or other contrivance, by means of which it can be safely and conveniently carried As for class1, provided that where the 5,000 in number 100 in number number in any outer package exceeds 3,000 such outer package shall be provided with handles or other contrivance, by means of which it can be safely and conveniently carried.

21. Class7, Double package the inner package being 10 kgs.

0.5 kgs.

hermetically closed and contain in an outer package as above defined.

22. Class7, Single outer package, provided that Cl. 50kgs.

Division 2.

Division 1

(3) of this Schedule shall not apply to explosives of this class and Division.

23. Class 8, L.Q.X (Liquid) Cartridges packed and transported for immediate use in insulated packing boxes of a design approved by the Chief Controller.

SCHEDULE III

Methods of Testing

(See rule 21)

An explosive of the 3rd (Nitro-compound) Class or of the 4th (Chlorate-mixture) Class shall comply with the tests set forth in this Schedule as applicable to such explosive: -

THE HEAT TEST AS APPLIED TO EXPLOSIVES

1. Apparatus and Materials employed

	Specification	Pattern No.	Article	
1	•	2	3	1
A			Acid, acetic 56.8 c.c. bottle	1
			IBalance	
			IIBath, water	1
			IIIBath, water, for hot water heating*	1
			IVBeaker, glass 11/31itres	1
			VBottle, dropping, brown glass, 28.4 cc. (for glycerine and water mixture).	1
			VIBottle, glass-stoppered, brown glass, 28.4 c.c. (for standard tin papers).	
		V	VIIBottle; glass-stoppered, brown glass, 56.8 cc.(for test papers).	1
		V	IIIBrush, cleaning	2
			IXBrush, cleaning, test tube	1
			XBurners, gas, Argand and screen	1
			XICaps, for test tubes	A sufficient supply.
В.		2	KIIChalk, French	A sufficient supply.
		X	IIIForceps, lifting, heat test paper	1
		X	IVFunnel, aluminum	1

1
1
1
1
1
1
A sufficient supply
Do
Do
Do
A sufficient supply.
1
6
1
1
1
A set.
1
1
1
A sufficient supply
2
6
1
A sufficient supply
1
A sufficient length.
A sufficient supply.
A set.

Alternative pattern for use where hot water is available.

N.B.- The apparatus and materials are to comply in all respect with the specification and standard patterns.

SPECIFICATION A-ACID, ACETIC

The acetic acid is to be clear, colourless and free from all impurities, and is not to contain less than 96 per cent CH₃ COOH. When 1 c.c, of N/10 potassium permaganate solution is added to 100 c.c. of the acetic acid maintained at 150 C, the distinctive colour is to remain for not less than 15 minutes.

One drop of the diluted acetic acid one volume of acetic acid diluted with four volumes of distilled water. when placed by means of a glass rod on freshly prepared potassium iodide-starch paper is to produce no colour.

SPECIFICATION B-CHALK, FRENCH

The French chalk is be equal in colour, to the standard sample and is not to contain more than 0.5 per cent. of moisture.

The bulk of the French chalk is to be such that a volume of 50 c.c. will weight 23.5+1.0 gramme. This to be determined as follows:

A glass funnel, the stem of which is 11 cm. in length tapering, internally from 8 mm. at the top to 5 mm. that the end, is to be clamped vertically above a 50 c.c. cylinder so that the mouth of the latter is 7 cm. below the lowest point of the funnel. The cylinder is to be 2.5 cm. in internal diameter, with a ground edge. The French chalk is to be poured gradually into the funnel and allowed to flow into the cylinder until the latter overflows. This should take one minute. The surface of the chalk is then to be levelled off, without tapping or shaking the cylinder, by drawing a straight edge over the mouth of the cylinder. The cylinder and contents are then to be weighed.

The fineness of the French chalk is to be such that it will all pass, without rubbing, through a 0.075 mm. wire sieve of 6,400 meshes per square centimetre.

The French chalk is not to contain more than 0. 1 per cent. of soluble al salts calculated as Ca C03. This is to be determined as follows:

10 grammes of the chalk are to be boiled with 250 c.c. of water for on minute, filtered, washed and the filtrate titrated with N/10 hydrochloric acid.

The French chalk, when warmed with hydrochloric acid is not to give o more than 1 per cent. and not less than 0.25 per cent. of carbonic acid gas.

The French chalk is not to absorb more than 0.5 per cent. of moisture aft being dried at 100°C till constant in weight, and then exposed under a bell-j to saturated atmosphere at 150°C to 200°C for 24 hours.

NOTE. - Before use in heat-test, experiments the French chalk is to b carefully washed with distilled water, dried in a water oven at 65-700C, an exposed to a saturated atmosphere for hours. It is to be kept in a we stoppered bottle.

SPECIFICATION C-GLYCERINE

The glycerine is to comply with the latest edition of British Pharmacopoeia Specification in all respects.

SPECIFICATION D-PAPER, FILTERS

The paper for making heat test paper is to consist entirely of pure norm cotton cellulose of strongly resistant quality and free from any loading or sizing

During manufacture, the paper is to be submitted to artificial heat of an kind.

The paper is to have a smooth white surface, and both sides are to be a nearly alike as possible.

The average length of the fibres X is to be 2 ± 0.5 mm.

Ten sheets, when measured with a Ciceri Smith's patent fixed pressure micrometer, are to have a thickness of 1.8±0.2 mm.

The last treatment in its preparation is to be a through washing with pure distilled water and subsequent air-drying in a pure atmosphere.

The paper is to be free from all traces of chemical or other impurity particularly acids, chlorine and perioxides.

On holding with 3 per cent. caustic soda solution for 60 minutes, the paper is not to lose more that 7.5 per cent. of its weight.

When heated for 15 minutes at 100° C with Fehling's solutions, diluted with twice its volume of boiling water, it is not to produce more than 1.25 per cent of its weight of cuprous oxide (C₂ uO).

It is to be supplied in sheets 50 cm., long by 15 cm., wide, and each 10 sheets packed separately in a hermetically sealed tin case closed by a tear-of strip.

For use in the extraction of nitro-glycerine from dynamite, if is to be supplied in circles 5.5 cm. in diameter, each 100 papers being packed separately.

SPECIFICATION E-PAPERS, TEST

The papers are to be prepared and tested by the method laid down I Appendix II.

Each batch of papers is to be tested by carrying out four consecutive test of four papers on each of two days. The mean test obtained is to be 18.5±7.6 minutes. A test different from the mean by more than two minutes is to b considered abnormal, and is to be disregard unless there are more than one o such abnormal tests amongst the 32 papers tested, in which case the batch I to be condemned.

SPECIFICATION F-PAPERS, STANDARD TINT

The standard tint papers are to be made by the method described in, an are to conform to the conditions laid down in Appendix I.

II-Preparation of the sample to be tested

All the operations in preparing a sample for testing are to be carried out as expeditiously as possible, avoiding exposure to light, as far as practicable and the test is to be carried out as soon as the sample is prepared.

In weighing out heat test quantities, an accuracy of ± 0.05 gramme is sufficient. These quantities are to be weighed out into test tubes, which have been fitted with rubber rings, the lower surface of which coincides with the bottom line etched on the test tube.

Explosives of Class 3, Division 1

(1) Friable Nitro-glycerine preparations from which the nitro-glycerine or liquid nitro-compound cannot be conveniently extracted with water-

· · ·	-	and rotated with one hand while with the other contents of the cartridge are to be first 12.7 mm. of the sample so loosened is to be rejected.
(b) The cartridge is the	n to be inverted over the scoop and the looseni	ng operation continued so as to transfer a portion of the explosive to the scope.
(c) When the weight of	the sample in the scoop has been adjusted to	
		am funnel to heat test tubes collected at the bottom by gently tapping the side of the tub of the flat-headed glass rod. The sample is then ready to be heat tested.
(2) Blasting Gelatine ar	nd Analogous Preparations-	
	be judged is then to the cut off for test. The sa	the sample is to be removed with the spatula and rejected. A piece weighing 3.2 mple is to lie on its own wrapper during these operations, and direct contact of the
		and pieces added to, or removed from it, until 3.2 grammes are obtained. The quantity o be weighed out using the spatula and scoop and transferred to the mortar.
-	incorporated with the French chalk by repeatermal samples should generally, be as follows:	dly sqeezing it with the end of the pestle, until it is in a condition in which it can be
Blasting gelatine Gelatine dynamite Gelatine and similar		11/2 minutes 1 minute
Explosives containing		
Less than 63 per cent. of nitro-glycerine.		1/2 minute.
The mixture is then to be g	ground by a circular movement of the pestle fo	r a further period of half a minute and should then be homogenous in appearance.

(e) The pestle and mortar after each grinding are to be thoroughly washed with tap water, rinsed with distilled water, dried with a clean towel, and finally dried in a bath at 1000C. The pestle and mortar are to be allowed to cool to the ordinary temperature before being used again.
(3) Cordite, Ballistite and other propellants of Class 3, Division 1-
(i) Explosives in the form of sticks or tubes:
(a) The operator is to wash his hands carefully thoroughly rinse them in distilled water, and dry them with a clean towel.
(b) The sticks or tubes to be tested are to be wiped out with clean filter paper.
(c) The sample is to be reduced to a condition suitable for grinding in the cordite mill by being cut into small piece about 3.175 mm. long by means of the cordite knife, 12.7 mm. being rejected from each end of the sticks or tubes to be tested.
(d) The set of sieves with the lid removed is to be placed under the mill so as to allow the ground material to fall directly on the top sieve.
(e) The cut sample is to be transferred from the cordite tray to the mill and ground. The first portion passing through the mill is to be rejected. A sufficient quantity of the sample is to be taken to ensure that enough material is obtained on the second seive without grinding the whole quantity introduced into the mill.
(f) The lid is to be replaced on the set of seives and the sample is sieved for one minute. The material which remains on the second sieve is to be taken for heat test, except in the case of powder in sticks or tubes the nominal diameter of which is less than 0.762 mm. in this case, the material in the bottom compartment is to be taken for heat test.
(g) 1.6 grammes of the ground and sieved sample are to be weighed out in the scoop, transferred by means of the aluminium funnel to a heat test tube and collected at the bottom by gently tapping the side of the tube with the fingers. These such test quantities are to be so weighed out. The sample is then ready to be heat tested.
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The mixture is to be transferred to a test-tube by means of the horn spatula and the aluminium funnel, and gently pressed down to a height of 5

centimetres with the flat-headed glass rod. The sample is then ready to be heat tested.

(h)	The set of sieves and the cordite mill are to be cleaned with the cleaning brush before and after the preparation of each sample.
	Explosives in the form of grains for small arms,-1.6 grammes of the sample is to be weighed out in the scoop, transferred by means of the aluminium I to a heat test tube and collected at the bottom by gently tapping the side of the tube with the fingers. Three such test quantities are to be weighed out. ample Is then ready to be heat tested.
Explo	osives of Class 3, Division 2-
(1)	Nitro-cellulose Pulp-
(a)	The operator is to wash his hands carefully, thoroughly rinse them with distilled water and dry them with a clean towel.
pressu	Six thick nesses of filter paper are to be laid on top of one another. Sufficient of the sample to be tested, to give about 5.6 grammes after the final ng, is to be spread on the top sheet. Six other thickness of filter paper are to be similarly laid over the sample. The whole is then to be placed under are as, for instance, in a hand screw press, and pressure applied for three minutes. On removal from the press, the sample is to be rubbed up by hand on the paper and again pressed for three minutes on fresh filter paper. The sample is then to be transferred to the rectangular sieve and rubbed through it with the
(c)	5 grammes of the sieved sample are to be weighed out in the scoop and spread evenly on a aluminium tray.
(d) minut	The oven is to have been brought to, and is to be maintained at a temperature of 48.90C (1200F) the tray is to be placed in the oven and kept there for 15 es with the door closed.
. ,	The tray is to be removed from the oven and the sample transferred to the top sieve of the set of sieves. The lid is to be replaced, and the sample sieved to minutes. For this operation the second sieve is not to be used.
(f) hours	The portion of the sample which passes through the top sieve is again to be spread evenly on an aluminium tray and exposed to the air. the room for four .
(g) test qu	1.3 grammes of the exposed sample are to be weighed out in the scoop and transferred by means of the aluminium funnel to a heat test tube' - Two such uantities are to be so weighed out. The material in each is to be gentle pressed down with the flat-headed glass rod to a height of three centimetres. The

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samp	le is then ready to be heat tested.
(h)	The wire sieve and the set of sieves are to be cleaned with the cleaning brush before and after each sample has been sieved.
(2)	Compressed Guncotton:
(a)	About 10 grammes of guncotton are to be removed from the centre of the primer or slab by scrapping with the hom spatula.
	The scrapping so obtained are to be placed in the glass beaker two-thirds full of cold distilled water. The sample is to be frequently stirred up in the water g 15 minutes with the flat-headed glass rod, and then allowed to settle. The water is to be poured off and replaced by a similar quantity of distilled water in the sample is to be frequently stirred up as before during 15 minutes. After settling, the second wash water is to be poured off.
(c)	The operator is to wash hands carefully, thoroughly rinse them with distilled water and collect the sample by hand squeezing out the excess of water.
for th	Six thick nesses of filter paper are to be laid on top of one another. The washed guncotton is to' be spread on the top sheet. Six other thick nesses of paper are to be similarly laid over the sample. The whole is then to be placed under pressure as, for instance, in a hand screw press and pressure applied tree minutes. On removal from the press, the sample is to be rubbed up on the filter paper by hand and again pressed for three minutes on- fresh filter. The sample is then to be transferred to the rectangular sieve and rubbed through it by hand.
(e)	5 grammes of the sieved sample are to be weighed out in the scoop and spread evenly on an aluminium tray.
	oven is to have been brought to, and is to be maintained at a temperature of 48.9°C (120°F). The tray is to be placed in oven and kept there for 15 minutes, the door closed.
(g) for tw	The tray is to be removed from the oven and the sample transferred to the top seive of the set of sieves. The lid is to be replaced, and the sample sieved wo minutes. For this operation the second sieve is not to be used.
(h) hours	The portion of the sample which passes through the top sieve is to be again spread evenly on a aluminium tray and exposed to the air of the room for tour state.

	1.3 grammes of the exposed sample are to be weighed out in the scoop and transferred by means of the aluminium funnel to a heat-test tube. Two such quantities are to be so weighed out. The material in each is to be gently pressed down with the flat-headed glass rod to a height of three centimeters. The ble is then ready to be heat tested.
j)	The wire sieve and the set of sieves are to be cleaned with the cleaning brush before and after each sample has been sieved.
3)	Nitro-cellulose propellant
(i)	Explosives in the form of sticks or tubes
a)	The operator is to wash his hands carefully thoroughly rinse them' in distilled water, and dry them with a clean towel.
b)	The sticks or tubes to be tested are to be wiped out with clean filter paper.
c) ordi	The sample is to be reduced to a condition suitable for grinding in the cordite mill by being cut into small piece about 3.175 mm. long by means of the te knife, 12.7 mm. being rejected from each end of the sticks or tubes to be tested.
d)	The set of seives with the lid removed is to be placed under the mill so as to allow the ground material to fall directly on the top seive.
e) uan	The cut sample is to be transferred from the cordite tray to the mill and ground. The first portion passing through the mill is to be rejected. A sufficient tity of the sample is to be taken to ensure that enough material is obtained on the second seive without grinding the hole quantity introduced into the mill.
	The lid is to be replaced on the set of seives and the sample is to be sieved for one minute. The material which remains on the second sieve is to be taken eat test, except in the case of powder in sticks or tubes the nominal diameter of which is less than 0.762 mm. in this case, the material in the bottom partment is to be taken for heat test.
	1.6 grammes of the ground and sieved sample are to be weighed out in the scoop, transferred by means of the aluminium funnel to a heat test tube and cted at the bottom by gently tapping the side of the tube with the fingers. These such test quantities are to be so weighed out. The sample is then ready to-eat tested.

The set of sieves and the cordite mill are to be cleaned with the cleaning brush before and after the preparation of each sample. (h) The explosives in the form of grant for small arms:-(ii) A quantity of the sample sufficient for the tests required is to be spread evenly on an aluminium tray. (a) The oven is to have been brought to, and is to be maintained at a temperature of 48.9°C (120°F). The tray is to be placed in the oven and kept there for 15 minutes, with the door closed. (c) The tray is to be removed from the oven and exposed to the air of the room for 4 hours. 1.3 grammes of the exposed sample are to be weighed out in the scoop and transferred, by means of the aluminium funnel to a heat test tube. Three such test quantities are to be so weighed out. The sample is then ready to be heat tested. **III.** Application of the TEST: The water bath is to be fitted up and is to be levelled and filled with water up to the outflow. It is to be placed on a table of convenient height in such a position that the heat test tint can readily be observed by reflected light. No part of the apparatus is to be exposed to direct sunlight. The thermometer fixed in the rubber stopper, is to be inserted in the wire cage provided for the purpose on the under side of the lid of the water bath to a depth of 7.6 cm. the water is heated to the required temperature and maintained at a constant temperature and depth. The temperatures for the various explosives are given in Table I. The glass rod with platinum wire hook is to be inserted in the rubber stopper. A test paper is then to be removed from the brown glass bottle by means of the forceps placed on the glass plate so that its edges coincide with the lines on the plate, and pierced by passing the needle through the paper and the hole in the

(d) The rubber stopper carrying the glass rod and test paper is at once to be firmly pressed into the test tube containing the explosives to be tested until the bottom of the stopper coincides with the top line etched on the test tube and the position of the glass rod is to be adjusted, so that the lower edge of the wet portion of the test paper, which edge is to be approximately horizontal, coincide with the middle etched line on the test tube. The test tube is then to be inserted in one of the wire-cages of the lid of the water bath, so that the bottom line etched on the test tube coincides with the upper surface of the lid. The rubber ring is

plate. The test paper is then to be held by means of the forceps, and a mixture of equal volumes of distilled water and glycerine is to be applied to the upper edge of the test paper by means of the glass rod of the dropping bottle in sufficient quantity to moister the upper half of the test paper by the time the test is complete. The platinum wire hook of the glass rod is then to be passed through the hole in the paper. At no time is the operator to touch the paper with his

finger.

to be pressed down on the bath and the cap placed in position over the tube.

The quantities of the various explosives to be placed in the test tube are given in Table I.

The test paper is not to be inspected by lifting the cap until shortly before the time explosive ought to stand the test as given in Table I.

(e) The test is completed when the faint brown line, which after some time makes its appearance at the margin between the wet and the dry positions of the test paper, equals in depth of tint the brown line on the standard tint paper.

For any given explosives to pass the test, the time elapsing between the introduction of the tube into the bath and the production of the tint equal to the standard must not be less than the time given in Table 1.

After the test is finished, the explosive is to be carefully removed from the tubes, and the tubes thoroughly washed out with tap water by means of the test tube brush. They are then to be rinsed out and allowed to drain for a few minutes. The washing is repeated with distilled water, the tubes rinsed, allowed to drain, and finally dried in a bath at 1000C. The tubes are to be allowed to cool to the ordinary temperature before being used again.

Class	Division	Explosive Nature	Temperature of Heat Test Bath	ofQuantity of Explosive Heat Tested	Time Explosive should stand the Test Min.
3	1	Friable Nitro-glycerine preparations from which the Nitro-glycerine cannot conveniently be extracted by water.	7.1 (1600F)	3.2 grammes	7
		Blasting Gelatine, and Analogous preparations	71.1 (1600F)	3.2 grammes+6.5 grammes French Chalk	10
		Cordite, Ballistic and other propellant of Cla 3, Division 1	ss71.1 (1600F)	1.6 grammes.	10

3	2	Nitro-cellulose pulp, compressed Gun-cotton Nitro-cellulose Propel -lants	1.3 grammes grammes	1.3	10
					10

IV-Exudation and Liquefaction Test for Blasting Gelatine and analogous preparations

Test for Liquefaction

A cylinder of blasting gelatine is to be cut from the cartridge to be tested the length of the cylinder to be about equal to its diameter and the ends being cut flat.

The cylinder is to be placed on end on a flat surface without any wrapper and secured by a pin passing vertically through its centre.

In this condition the cylinder is to be exposed for one hundred and forty four (144) consecutive hours (six days and nights) to a temperature ranging from 29.40C to 32.20C and during such exposure the cylinder shall not diminish in height by more than one-fourth of its original height, and the upper cut surface shall retain its flatness and the sharpness of its edge.

Note. - If the blasting gelatine and gelatine dynamite to be tested cannot be made up in cylindrical form, the test is to be applied with necessary modifications.

Test for Liability to Exudation

There shall be no separation from the general mass of the blasting gelatine or gelatine dynamite of any nitroglycerine or liquid nitro-compound under any conditions of storage, transport or use, or when the material is subjected three times in succession to alternate freezing and thawing or when subjected to the liquefaction test hereinbefore described.

V-Picric Acid

(1)	The material shall contain not more than 0.3 part of mineral or noncombustible matter in 100 parts by weight of the material dried at 711°C. (160°F).
(2)	It should not contain more than a minute trace of lead.
(3) shall	One hundred parts of the dry material shall not contain more than 0.3 part of total (free and combined) sulphuric acid, of which not more than 0.1 part be free sulphuric acid.
(4)	Its melting point should be between 1120c and 122.80C.
The r	naterial must not be too sensitive and must show no tendency to Increase in sensitiveness on keeping.
The r	naterial must contain nothing liable to reduce the chlorate.
Chlor	rites calculated, as potassium chloride must not exceed 0.25 per cent.
	VI-Testing Chlorate mixtures
The r	naterial must contain no free acid, or substance liable to produce free acid.
Explo	osives of this class containing nitro-compounds will be subject to the heat test as they belonged to Class 3.
	-These explosives will be considered too sensitive if they can be exploded, however, partially by means of a glancing blow with a broomstick on soft l, such as, deal.
	VII-PETN Penta" Erythritol Tetra nitrate
(a)	Heat Test If the sample is received dry, it is to be transferred to a clean sheet of paper and mixed thoroughly in an atmosphere free from dust. Sample of

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temperature not exceed 60% until constant in weight.					
1.3 grammes of the dry sample is carefully transferred to a heat test tube by means the aluminium funnel. After removal of the funnel the sample is to be collected at the bottom of the tube by tapping with the fingers. It is then to be heat tested at a temperature of 76.6% and the time explosive should stand the testshould not be less than 10 minutes.					
(b) Other tests and requirements					
(1) The PETN should be in the form of white crystals.					
(2) It should be free from gritty particles, visible impurities and foreign matter.					
(3) Melting point- The melting point of the PETN should be between 1390c and 1420c					
(4) Insoluble matter- The total insoluble matter in acetone should not be more than 0.05 per cent.					
(5) Volatile matter- Volatile matter should not be more than 0. 15 per cent.					
(6) Acidity- the acidity, calculated, as $HN0_2$ should not exceed 0.01 percent.					
(7) Alkalinity- The alkalinity, calculated as Na ₂ CO ₃ , should not be more than 0.01 per cent.					
(8) Nitrogen content- The nitrogen content should not be less than 17.40 per cent. and not more than 27.80 per cent.					
APPENDIX-I TO SCHEDULE-III					

0.48 grammes of the finest yellow ochre, 0.2 gramme of raw and 5 grammes of fine white gum arabic, all of which have been very finely ground in an agate mortar, are weighed into stoppered bottle of about 150 c.c. Capacity and 100 c.c. of water added. The whole is shaken in the cold until the gum is dissolved. The suspension is then well shaken and allowed to stand for one hour.

A stylographic pen is then filled from the centre of the suspension and with the aid of a ruler lines are drawn at a steady pace across one side, of a sheet of filter paper to Specification D. The sheet is then cut up into rectangular strips 1 cm. broad by 2 cm. long, each with line across the middle perpendicular to the length of the strip. The breadth of the line must be neither less than 0.5 mm. nor more than 1 mm.

In order to maintain continuity as regards depth of tint strips in which the tint does not correspond with that of the sealed pattern are to be rejected.

APPENDIX-II TO SCHEDULE-III

Preparation and Testing of Heat Papers Preparation

Potassium Iodide. - The purest potassium iodide obtainable commercially is to be purified by triple re-crystallisation from pure ethyl alcohol, diluted by the addition of one-twentieth of its volume of distilled water. The crystals are to be kept as small as possible, and are to be spread out on clean filter paper, resting on a glass plate, and allowed to dry in the dark. When dry, they are to be placed in a thin layer on the bottom of a platinum crucible and heated to a dull red heat for one minute over a spirit lamp burning pure alcohol. When cold the crystals are to be transferred to a brown glass stoppered bottle from which the quantities required are to be weighed out.

The potassium iodide used for each batch of filter paper is to be prepared as above immediately before use.

Starch. - The starch used is to be best maize starch in the form of corn flour. It is to be purified immediately before use by washing six times by decantation with freshly distilled water. It is then to be placed on a porous plate of unglazed porcelain, allowed to dry in a warm atmosphere in the dark, and stopped in a brown bottle from which the quantities required are to be weighed out.

Preparation of the Dipping Solution. -220 cc. of freshly distilled water are to be placed in a Jena glass flask and raised to boiling point over a spirit lamp burning pure spirit. 3 grammes of the starch, prepared as above, are to be suspended in 30 cc. of distilled water and the mixture poured into the 220 c.c. of boiling water, with continuous shaking. The whole is to be kept boiling gently, and shaken occasionally for 5 minutes. The solution of starch so prepared is to be added to a solution of 1 gramme of the purified potassium iodide in 250 c.c. of fresh distilled water, and the solution well mixed. The mixture is to stand overnight in a dark room. The following day, the clear supernatant liquid is to be carefully syphoned off and used immediately for dipping the paper. If it is desired to dip a large bath of paper, the foregoing quantities may be multiplied in order to obtain sufficient solution.

Dipping the papers. - The clear potassium iodide and starch solution is to be poured into a porcelain tray, which is to be kept exclusively for this operation. Sheets of filter paper to Specification D are to be passed through it singly, so that all except 3 cm. at the end of the strip of paper, passes beneath the surface of the liquid.

The strip of paper is to be held above the tray by the dry portion and a glass rod passed down each side to remove the excess of solution. It is then to be suspended by the unclippened portion in a warm dark room, cupboard, or oven until dry. It is advisable to dip a small piece, out of the edge of each sheet at the boundary line between the wet and dry portions as a guide in subsequent cutting.

Cutting and Trimming the Test Paper.- In cutting and trimming heat test paper of the operator is to wear clean cotton gloves.

When the sheets are dry they are to be trimmed by cutting off the unclipped end about 0.5 cm. below the edge of the undipped portion 0.5 cm. strips are also cut from the other three edges. The sheets are then to be stored in amber-coloured glass jars, kept in the dark.

When a bath of paper has been passed for issue the sheets are to be cut up into rectangular pieces 1 cm. by 2 cm., and are to be issued in this form.

All the above operations are to be carried out in a building specially reserved for this work. This building is to be protected from the direct access the sun's rays and is, as far as possible, to be kept dark.

Testing of Heat Test Paper by the Diffusion Test

Apparatus and Materials required

No. Acheson graphite 1. Pieces, 1 Acid, Sulphuric, normal solution A supply 3. Annulus aluminium Cap, light-tight paste board 4. Cylinder, glass, with rubber stopper 5. Cylinder, measuring 100 c.c. 6. Ferrous ammonium sulphate 7. A supply 8. Jar, cylindrical, brown glass Pipette 10 c.c. 9. 10. Rod, stirring, glass

11. Sodium nitrite solution containing 1.7 gm in 1 litre

Stopper, rubber, with 4 platinum hooks

12

A supply 1

Application of the Test.- The solutions are to be brought to 15^oC before use. 2 grammes of ferrous ammonium sulphate are weighed out and placed in the glass jar, 90 cc. of the normal sulphuric acid added and solution effected by stirring with the glass rod. The jar is then placed in a bath of water at 15^oC and must be kept at the temperature of the air should be 14^oC to 17^oC. 10 c.c. of the sodium nitrite solution are then added by means of the pipette and well stirred in. An aluminium annulus is placed centrally over the mouth of the jar and the orifice covered by the graphite slab; over this is placed a second annulus. Good contact between surfaces is to be ensured by exerting a slight pressure and twisting motion.

The glass cylinder with rubber stopper and light tight cap are then placed on the second annulus and the assembled apparatus is allowed to stand for 20 minutes. After the expiration of the 20 minutes, the light tight cap and the glass cylinder are removed, the rubber stopper taken out of the cylinder waved several times through the air. As soon as possible, four of the heat test papers to be tested are moistened with glycerine solution, placed on the platinum hooks of the stopper, the stopper inserted in the cylinder, and the cylinder and light tight cap again placed in position of the second annulus, and the time noted.

When the papers read by reflected light reach the standard tint, the time is again noted; the difference gives the time of test. Standard tint papers to be read by reflected light used for comparison.

The cylinder is then removed uncorked, waved several times through the air, and a fresh set of papers is at once put on for test. After four sets of test have been made the graphite slab must be heated to 2000°C for 1 hour allowed to cool in an evacuated desiccator over potash for at least 16 hours before being used again.

A batch of papers is to be tested by carrying out four consecutive tests of four papers on each of two days.

SCHEDULE IV

Licensing Authority

(See rule 155)

Article No. Form of Licence Purpose for which granted Authority empowered to grant (1) (2) (3) (4)

1 -(a)	20	To manufacture explosives other than fireworks-	Chief controller
		Gunpowder, ANFO at site and Liquid Oxygen explosives.	
1 -(b)	20	¹ [To manufacture fireworks-and/or gunpowder	District Authority cont roller of explosives authorised by Chief controller]
		(1) Up to 15 Kgs.	controller
		(2) More than 15 Kgs; and up to 200 Kgs.	
1-(C)	20	To manufacture fireworks and/or gun powder more than 200 Kgs. at a time.	Chief controller
1. Subs. l	oy G.S.R. 41 (E), dated	15 th January, 1988 (w.e.f. 18 th January, 19	88.
1 -(d)	38	To manufacture ANFO explosive at site.	Controller Of explosives, authorised by Chief controller
1-(e)	39	To manufacture liquid oxygen explosives	Chief controller
2-('a)	21	To possess for sale explosives not exceeding 2000.kgs. of Class 1,2,3,4 and 7 together with explosives of Class 6.	Controller of explosives authorised by Chief Controller
2-(b)	21	To possess for sale explosives exceeding 2000 Kgs Kgs. of Class 1,2,8,4, and7 and any quantity of Class 5, 6 and 8	Chief Controller
3-(a)	22	To possess for use explosives not exceeding 2000	Controller of Explosives authorised by Chief
<i>3-(b)</i>	22	Together will explosives of Class 6. To possess for use explosives exceeding 2,000 Kgs. of Class 1,2,3,4 and 7 and any quantity of Class 5,6 and 8.	Chief Controller
4-(a)	24	¹ [To possess and sell from a shop small -arms nitro compound not exceeding 25 kgs. or fireworks not exceeding 100 Kgs. of Class 7, Division 2 subdivision 2, 1000 Kgs. of Class 7, Division 2 sub- division 1; or gunpowder not exceeding 25 Kgs. and safety fuse not exceeding 10,000 metres]	Controller of Ex-plosives authorised by Chief Controller

4-(b)	² [To possess and sell from a shop fireworksDistrict authority
	not exceeding 50 Kgs. of Class 7, Division
	2 sub-division 2, 400 Kgs. of Class 7,
	Division 2 subdivision I or gunpowder not
	exceeding 5,000 metres.]

- 1. Subs. by G.S.R. 41 (E), dated 15th January, 1988 (w.e.f. 18th January, 1988).
- 2. Subs. by G.S.R. 903 (E), dated 16th October, 1989 (w.e.f. 16th October, 1989).

5-(a)	23	To possess for own use Class 2 and/or Class 3 explosives not exceeding 5 Kgs. electric or ordinary detonators not exceeding 100 numbers and safety fuse nexceeding 200 metres.	District Authority
5-(b)	23	To possess for use arms nitro-compound not exceeding 5 Kgs. in the State of Kera	
5-(c)	23	To possess for use gunpowder not exceeding 5 Kgs. and safety fuse not exceeding 50 metres in the State of Bihar Kerala and West Bengal.	District Authority
6.	27	To import explosives	Chief Controller
7.	28	To export explosives	Chief Controller
8.	26	To transport explosives	Controller of Explosives
9.	25	For road van	Controller authorised
10.	29	For public display of fireworks.	Controller authorised by Chief Controller
11.	Special	To manufacture explosives not provided Article 1.	in Chief Controller.

SCHEDULE V-FORMS

FORM I

Test Certificate for Explosives

(See rules 28 and 34)

Certified that samples of the explosives of the description given below have been tested and have passed the test set forth in Sch. III as applicable to such explosive and in the case of explosives of the lst Division of 3rd (Nitro compound) or 4th (Chlorate Mixture) classes, that there are no signs of liquefaction or of excluded nitro-glycerine or liquid nitro-compound.

Name and address of importer* Consignor	Description of Explosives	Number of packages	Date of manufacture and batch number referred to in rule 9 (2)	tint to appear				
	This certificate is valid for twelve months only that is to say it expires on the day of							
Date:			Signature of To	esting Officer				
Place:			Designation					
*Name of importer in case of import, and consignor in case of transport.								
				FORM 2				
				(See rule 24)				

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Date of arrival atPort....

Name of ship

1.

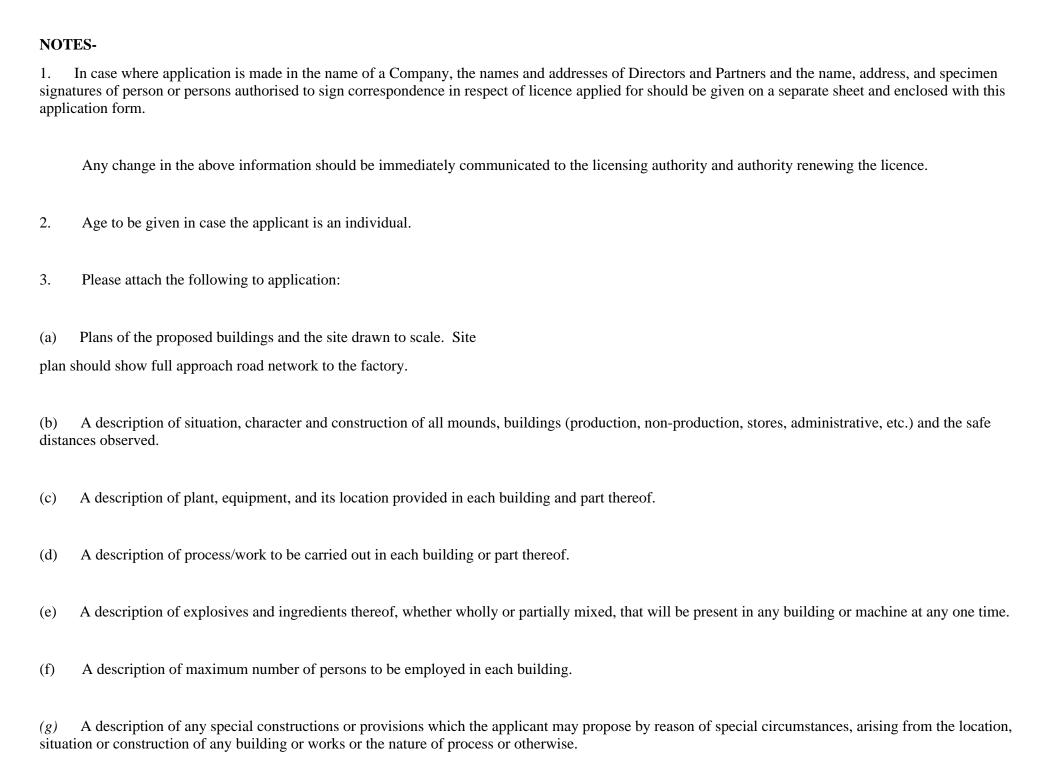
2.

Declaration to be made by the Master of a Ship carrying explosives before entering a port or by the ship's agent.

Descrip Explosi	otion of eves	Date of manufacture, batch No. and other distinguishing marks on cases	carried	_	antity to be ded at port	Remarks					
		on cases	Kg. Cases	Kg	. Cases						
Date :	:		Sign	nature of	Master/Agent o	of Ship					
					FORM	13					
					[See rule 1	54 (3)]					
I	,on be	ehalf				cence No	to man	ufacture exp	losives. I g	rive full parti	culars below
			The rep	lies to be	written in this						
				col _	umn						
	Name in who (see note be	nich licence is required low)	to be granted .	••	••	••	••				
	Status Company	Individual		••		••	••				
	· r /	Society		·•	••	••	••				

3.	Age (see notes below)	••	••	••	••
4.	Postal address: Pin code No. Telephone No. Telegraphic Address Telex				
	Telex	••	••	••	••
		••		••	••
5.	Qualifications and experience of applicant and the technical personnel employed by him. (Give individual details and attach separate sheet if required)			••	••
6.	Situation of the premises:	••	••	••	••
	State	••	••	••	••
	District Town or village	••	••	••	••
	Survey No.	••	••	••	••
	Police Station	••	••	••	••
	Railway Station or Steamer Ghat	••		••	••
7.	Explosives proposed to be manufactured:			••	••
	Class	••	••	••	••
	Division (if any)	••	••	••	••
	Name and description	••	••	••	••
	Annual capacity of the Manufacturing Plant				
	Quantity of explosives present at any one time in the manufacturing Plant	l 		••	••
	Quantity of explosives proposed to be manufactured in one day	••	••	••	••
		••	••	••	••

8.	Has the process been approved by Chief Controller. If yes, please give approval letter No and Date	Yes		No	••		
		••	••	••	••		
9.	Has the applicant been convicted under any offence or ordered to execute bond under Chapter VIII of the Code of Criminal Procedure, 1973 during last 10 years. If yes, please give details.	Yes	•	No			
10	(a) Particulars of other licences under Explosives Act, 1884, if any, held by the applicant during last 10 years		••	••	••		
	(b) Was an licence cancelled/not renewed?	••		••	••		
	(c) If yes, give details						
Details of amendment proposed/ Additional	Details of amendment proposed/ Additional information, if any	••	••	••	••		
	information, if any	••	••	••	••		
I hereby certify that the above particulars given by me are correct.							
	Signature of Applie	cant					
	Authorised person in case of a Company)						
	Full Name						
Addr	ess						
Date							



4.	Delete which	never is not applicable.							
5.	In case the ap	oplication is for amendment of l	licence, only relevant doc	umen	ts shou	ıld be	submitte	ed.	
			I	FORM	Л 4				
			[See	rule 1	154 (4))]			
			Application for	r grai	nt or a	mend	lment		
			of licence to pro	ocess	and se	ellexp	losives		
	ession and sale	on behalf of of	apply for	grant	of a lic	cence/	amendm	ent of licence No	 fo
		elow full particulars and enclos	se other documents as requ	uired.					
			Replies to be	e writ	ten				
			in this colu	nn.					
1. 2.	Name in was	hich licence is required to be gr Individual	ranted (see notes below)		•	•			
		Company			•		•		
		Society		•	•		•		
2									
3.	Age (see no	otes below)		•	•	•	•		
4.	Postal addr	ress		•	•	•	•		
		Pin Code No.		•	•	•	•		
		Telephone No.		•	•	•	•		
		Telegraphic Address		•	•	•	•		
		Telex		•	•	•	•		

5.	per	sonnel employed by him (Give individuate sheet if required).				
6.		nation of premises ——— vn or Village Survey No. Police	State District			
	Stat	•				
7.	Explo	osives proposed to be possessed and so	ld			
Namo (i)	and I	Description Class	Division if any	Quantity anyone in the time	at month	
(ii)						
(iii)						
8.		the premises attached to a factory licen the licence number	sed to manufacture explosi	-		
9.	Have	e the premises previously been licensed	l? If yes, please give:	 Yes	••	 No
	(i)	Previous licence No.				
	(ii)	Name and address of previous licence	e			
	(iii)	Reasons for cancellation/non-renewa	l of previous licence			

	please give details.			
		Yes.	No.	
11.	(a) Particulars of other licences, if any, under Explosives Act, 1884 held by the applicant during the last 10 years.			
	(b) Was any licence cancelled/not renewed			
	(c) If yes, give details	Yes	 No	
12.	Details of amendment proposed/Additional/ information, if any			
I here	by certify that the information given above is correct.			
	Date	Signature of ap	oplicant	
	Place			(Authorised person in case of
	Full Name			
	Address			

NOTES. -

10.

(1) In case where application is made in the name of a company, the names and addresses of Directors and Partners and the name, address and specimen signatures of person or persons authorised to sign correspondence in respect of licence applied for should be given on a separate sheet and enclosed with this application form.

Any change in the above information should be immediately communicated to the licensing authority and authority renewing the licence.

Has the applicant been convicted under any offence or ordered to execute any bond under Chapter VIII of the Code of Criminal Procedure 1973, during last 10 years? If yes,

(2)	Age to be given in case the applicant is an individual.	
(3)	Please attach the following to application-	
(a) safety	Site plan of the proposed premises. The plan should be drawn to scale and show full a fety distances from nearest protected works.	pproach road network to the premises, nearby landmarks, and
(b)	Plans showing construction details of the building mounds, lightning conductors, etc.	
(4)	Delete whichever is not applicable.	
	FORM 5	
	[See rules 154 (4) and 154	(5)]
	Application for grant or amer	ndment
	of licence to possess explos	ives
	for use	
	on behalf of and the necessary documents are enclosed.	o to possess explosives for use. The required particulars
	Replies to be written	
1. 2. 3. 4.	in this column. Name in which licence is required to be granted (See notes below) Status Individual Company Age Society (See notes below) Postal Address Pin Code No. Telephone No. Telegraphic Address Qualifications and experience of applicant and the technical personnel employed by him (Give individual details and attach separate sheets if required)	

6.	Situation of premis District Town or V Steamer Ghat	es for storage illage Survey No. F	Police Station Raily	way Sta	State ation or			
7.		ed to be stored for u	se-					
	e and Description i) (iii) (iv) (v) (vi)	Class	Division	Qu	antity at	any one ti	me	
8.	Where the premises previous please give- (i) address of previous lice	Previous licence Note tensee (iii)	Reasons for	If	Yes	No		
9.	cancellation/non-renewal of previous licence Explosives proposed to be used per day- Name and Description Class Division Quantity							
10. 11.	Details of site where e Distance of site where storage premises ment	the explosives will		••		••	••	
12.	Mode of transport of e			••	••		••	
13.	Licence No. of Road V	-		••	••	••	••	
14. 15.	Has the applicant beer to execute any bond use Criminal Procedure, 1 give details (a) Particulars of other	nder the Chapter VI 973, during last 10	III of the Code of years? If yes, plea	ase	••		••	
13.	1884, held by the appl (b) Was any licence ca	icant during the las	t 10 years		es .	 No		
	•	c) If yes, give detail		-	• • • •	110		
16.	Details of amendment			any	••			
I her	eby certify that the inform	nation given above	is correct.					
Date		Signa	ture of applicant					
		(Authorised perso	n in case of Comp	any)				
		Full 1	Name					
			Address					

NOTES
(1) In case where application is made in the name of a company, the name and address of Directors and Partners and the name, address and specimen signature of person or persons authorised to sign correspondence in respect of licence applied for should be given on a separate sheet and enclosed with this application form.
Any change in the above information should be immediately communicated to the licensing authority and authority renewing the licence.
(2) Age to be given in case the applicant is an individual.
(3) Please attach the following to the application:
(a) Plans of proposed building and site should be drawn to scale. The site plan should show full approach road network to storage premises and observe safety distances.
(b) Site plan of the area where explosives will be used. The plan should show-complete approach road network, nearby land marks, distances from nearest protected! Works, etc.
(4) Delete whichever is not applicable.
FORM 6
[See rule 154 (5)]
Application for grant of a licence to possess explosives for own use
I hereby apply for a licence to possess explosives as mentioned below for my own use for removal of tree stumps/levelling of ground digging of new well deepening of existing well. The purpose of

Nodated...... from...... as required under sub-rule (8) of rule 155 of the Explosives Rules, 1983, is also enclosed.

Replies to be given in this column.

1.	Name of the applicant	
2.	Age of the applicant	
3.	Residential address of the applicant	
4.	Location of the premises shall be used Survey No.	
5.	Mode of storage	
6.	Location of the- premises where the explosi	ves shall be stored
7.	Quantity of explosives proposed to be store	d
(i)	Gun Powder	
(ii)	Nitrate Mixture	
(iii)	Nitro-compound	
(iv)	Safety Fuse	

(v)	Electric Detonators
(vi)	Ordinary Detonators
8.	Particulars of the licence obtained by the applicant during last two years
(a) ten ye	Has the applicant been convicted under any law or ordered to execute a bond under Chapter VIII of the Code of Criminal Procedure, 1973, during the last ears? Yes No
(b)	If yes, give details
9(a)	Particulars of licence held by the applicant under the Explosives Act, 1884, during
	the last 10 years
(b)	Was licence cancelled/not renewed? Yes No
(c)	If yes, give details
10.	Any other information
I certi	fy that the information given by me above is correct.
Place	Signature of applicant
	Date of application

NOTES. -

(1)	The applicant should attach site plan and construction of the premises-where the explosives shall be stored.
(2)	Delete whichever is not applicable.
	FORM 7
	[See rule 154 (6)]
	Application for grant of a licence for
	a Road Van for transport of
	explosives
I,	
Road	Van, for transport of explosives. The required particulars are given below the necessary documents are enclosed.
	Replies to be given in the
	Column
1.	Name in which licence is required to be granted (see note below)
4.	Postal address of applicant Pin Code No. Telephone
	No. Telegraphic Address Telex
5.	Address of the premises where the vehicle is to be
	normally kept
6.	Explosive to be carried
7.	Places between which the vehicle will ply
8.	(a) Will the vehicle be used for carrying explosives to
	site and used for blasting (b) if of area of operation Yes No
9.	(a) Description of value Moke
9.	Registration of vehicle Engine No. Chassis No.
	registration of vehicle Engine 110. Chassis 110.

Size Fron		(a)Gross vehicle weight rating Weight of unloaded vehicle (C) Ply rating Maximum individual inflation pressure kg.	dual tyre load a cold		Kgs. Kgs.		
	Rear	Ü	Kg.				
10.	Total m Description of other fitti	aximum load-Total maximum individual tyre lo ngs on the vehicle	oad + number				
11.	Carrying capacity permi Authority	tted by Regional Transport					
12.	(a) Has the applicant bee ordered to execute a bon of Criminal Procedure, 1	en convicted under any offence or d under Chapter VIII of the Code 1973, during the last 10 (b)If yes, give details					
13.	(a) Particulars of any lice	ence held by the applicant under , during last 10 years (b) Was any	Yes No)			
14.	Additional information,	if any					
	•	given above is correct that every dr	river of this vehicle	shall be instructed	d in relevant prov	vision of the Act and rule	es made
there	eunder.						
	Date	Signature of applicant					
		(Authorised person in	case of				
		Name in Ful	1				
	Place	Company Name in	full Address				

NOTES. -

(1) In case where application is made in the name of a company, the names and address of directors and partners and the name, address and specimen signatures of persons or person authorised to sign the correspondence in respect of licence applied for should be given on separate sheet and enclosed with this application.

Any chan	ge in above information should be immediately communicated to the licensing authority renewing the licence.
(2) Ag	ge to be given in case the applicant is an individual.
	e applicant should submit plans of the road van showing complete construction details, fittings, and safety devices. Full details of additions ats/fittings in the vehicle should also be clearly shown.
(4) To	tal maximum load must equal or exceed gross vehicle weight rating.
(5) De	lete whichever is not applicable.
	FORM 8
	[see rule 154 (7)]
	Application for grant or amendment of licence to transport
	Explosives
	, on behalf of, apply for grant of a licence No to Transport explosives. The particulars are given below, other documents are given do other documents are enclosed as required.
1. 2.	Name of the applicant (see note below) Applicant's postal address Pin Code No. Telephone No Telegraphic

3.	Rules, 1983, held by the applicant from where the explosives will be transported Licence Nofor possession Situation of premises Licensed capacity- Name of explosives Class Division			······································	
	if any Quantity Date up to which the licence is valid	•••••			
4.	Particulars of place to which the explosives will be transported		;		
5.	Mode of transport (a)Does the applicant hold any licence	Yes	 No		
6.	(a) Has the applicant been convicted under any offence or ordered to execute bond under Chapter VIII of criminal procedure, 1973, during last ten years (b) If	e. yes		No	
7.	yes, please give details (a) Particulars of other licenses Under the Explosives				
	Act, 1884, if any, held by the applicant during last ten years (a) Was any licence cancelled/renewed?			yes	
		No		<i>y</i> 0.5	
8.	(c) If yes, give detail Particulars of amendment proposed/ Additional information if any				
I certify th	nat the particulars given by me are correct.				
	Signature of a	pplica	ınt		
	(Authorised pe	erson i	in case of	a)	
Date	Company	Company			
	Name in f	ull	• • • • • • • • • • • • • • • • • • • •		
	Address				
Plac	ce	•••••	•••••		

Notes.-

⁽¹⁾ In case where application is made in the name of a company and the names and addresses of directors, and partners and the name, address and specimen signatures of the person or persons authorised to sign the correspondence in respect of licence applied for should be given on separate enclosed with this

Any o	change in the above information should be immedia	tely communicated to the licensing authority and authority renewing the license.
(2)	Age to be given in case the applicant is an individua	al.
		FORM 9
		[See rule 154 (8)]
		Application or Shot-firer's Permit
I here	eby apply for a Short-firer's Permit under Explosives	eplies to be given in this
	Column	
1. 2. 3. 4.	Name of applicant in full Age of applicant Postal Address Pin Code No. Telephone No. Qualification and experience of applicant	
I cert	ify that the above particulars are true an correct	
		of applicant)
	Date of application	
NOT	E-Please encloses certified copies of certificates sho	owing date of birth, educational qualifications and experience.

FORM 10

[See rule 154 (7)]

application form .

Application or grant of licence

to import explosives

I	on behalf of	apply for g	grant of licer	nce un	der	
the Explosive	es Rules, 1983, to import explo	osives and furnish the	following p	articu	lars:	
2. State3. PostTele	ne in which licence is required us Individual Company al Address Pin Code No. graphic Address Telex losives proposed to be imported	Society Telephone No.			 	
Name and Do 5. 6. 7.	Are the explosives to be imported Licence particulars of the prestored	nufacturer of explosiv	es to be	Qu Yes 	antity No 	
Licensee	Licence No. & Form Validi		premises	Quantity to be stored		
8.9.10.	Port or place of import Has the applicant been convito execute any bond under Cl Criminal Procedure, 1973, d (a) Particulars of other licence 1884, held by tfi6 applicant of any licence cancelled/not ren	cted under an offence hapter VIII of the cod turing the last 10 years ees, if any, under Expl during the last 10 year	e of s? osives Act,	Yes Yes	No No	
11.	Additional information, if an	у				
I certify that the information given above is correct.						
Date	S	ignature of applicant.				
(Author	ised person in case of compan	y)				

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	Name in full
	Address
	ease where application is made in the name of a company, the names and addresses of directors and partners and the name, address and specimen of persons authorised to sign correspondence in respect of licence applied for should be given on a separate sheet and enclosed with this form.
Any change	in the above information should be immediately communicated to the licensing authority and authority renewing the licence.
	FORM 11
	[See rule 154 (7)]
	Application for grant of licence
	to export explosives
I,	, on behalf of
apply for gra	ant of a licence under the Explosives Rules. 1983, to export explosives. The necessary particulars are furnished below:
	Replies to be given
	in this column
1. 2.	Name in which licence is required (see note below) Postal Address. Pin Code No. Telephone No. Telegraphic Address Telex

3.	Particulars of licence/s granted under the Explosives			••
	Rules, 1983, held by the Applicant	 For poss	 vaccion	 and sale of
	. Licence No. Situation of premises Licensed	explosiv		and sale of
	capacity Name of Explosives Class Division, if any	-	Cs.	
	Quantity			••
	Quantity.			
		••		
4.	Quantity of explosives to be exported.	••		
Name &	Class Division, if any	Quantity	7	
Description				
(i)				
(ii)				
(iii)				
(iv)				
(v) 5.	Name and address of consignee.			
<i>5.</i> 6	Place or port from which explosives will be exported	••	••	••
7.	Name of the ship carrying explosives and likely date of	••	•••	••
7.	sailing	••	••	••
8.	Quantity of each explosives to be loaded on the ship			
9.	Transport licence No. held by applicant			
10.	(a) Has the applicant been convicted under any		••	• • •
	offence or ordered to execute bond under Chapter Vill of		••	
	the Code of Criminal Procedure, 1973, during the last ten		•	 NT.
11	years? (b) If yes give details	Yes		No
11.	(a) Particulars of other licences under the Explosives Act 1884, held by the applicant during last ten years. (b) Was		••	••
	any licence cancelled/not renewed (c) If yes, give		••	••
	details	 Yes	••	 No
	details	105		110
12.	Additional information, if any			
I certify that the	he above particulars given by me are correct.			
•				

Date.....

Signature of applicant.....

	(Authorised person in case of a company)	
Place		
	Address	
signat	-In case where application is made in the name of a company the names and addresses of Directors and Partners and the name, address and specing re of person or persons authorised to sign correspondence in respect of licence applied for should be given on a separate sheet and enclosed with tion form.	
Any c	ange in the above information should be immediately communicated to the licensing authority and authority renewing the licence.	
	FORM 12	
	[See rule 154 (7)]	
	Application for grant of a licence	
	for Public Display of Firework	
I,	, on behalf ofapply for a licence under the Explosives	
Rules	1983 for possession and use of Public Display Fireworks. The necessary particulars are given below and required documents are enclosed.	
Repli	s to be given in this	
Colur	n	
1.	Name in which licence is required to be granted (see note	
2.	Age (see note below)	
3.	Postal Address. Pin code	
	No. Telephone No. Telegraphic	
	Address Telex	
4.	Qualification and experience of the applicant and competent	
•	persons employed by him	
5.	Name, qualifications and experience of the persons supervising the display	

6.	Description and quantity of fireworks to be u	sed.				
7.	(a) From whom the fireworks will be obtaine	d: Name Address	S			
	Form and Licence No. held Validity of licence	e (b)Address	•	••	••	
	and licence No. of the place where fireworks	will be stocked	••	••		••
				••		
			• • • •			
						••
8.	Description and quantity of fireworks to be d	• •				
9.	Time of display and address of the place whe	re the &display	••	••	••	
10	will be held	CC	••	••		••
10.	(a) Has the applicant been convicted under an	•	•			
	ordered to execute any bond under Chapter V		•			
	of Criminal Procedure, 1973, during the last tyears? (b)If	yes, give details?	•			
	years: (b)II	yes, give details:	Yes			No
			103			140
11.	(a) Particulars of any licence under the Explo	sives Act ' 1884.		••	••	
	and the rules framed thereunder held by the a					
	last ten years. (b) Was any licence cancelled/					
	renewed (c) If yes, give details					
			Yes			No
				••	••	
12.	Additional information if any.					
I certif	fy that the information given above is correct.					
Date		Signature of appl	icant			
			icani			
(Autho	rised person in case of Company)	•••••				
Place		Name in full				
	Α	ddress				
	Γ	uui 000				

NOTE.-(1) In case where application is made in the name of a company, the names and address of Directors and Partners and the name, address and specimen signature of person or persons authorised to sign correspondence in respect of licence applied for should be given on a separate sheet and enclosed with this application form.

Any (change in the above information should be immediately communicated to the licensing authority and authority renewing the licence.
2)	Age to be given in case the applicant is an individual.
3)	Separate sheet may be attached if the space given in the form is not sufficient.
	FORM 13
	[See rule 166 (4)]
	Application for Renewal of licence
From	
Го:	
Dear	Sir,
	hereby apply for renewal Noin form for the period fromto
Durir	ng the last two years-
i)	I was/We were-
a)	Not convicted/convicted and sentenced for following offences
b)	Not ordered/ordered to execute under Chapter VIII of the Code of Criminal Procedure, 1973, a bond for keeping peace or for good behavior.

(ii)	Licence Nogranted under	er the Explosives Act to me/us were cancelled not/renewed by the licensing authority.
I/We	also enclosed the following documents-	
(i)	Licence No in Formtogether with approved	plans and schedules.
(ii)	Renewal fee of Rsby Cash/P.O. No	/Bank draft NoonBankBranch,
	drawn in favour of	
		Signature of Licensee
	(Authorised person in case of Company)	
Place	: Date of application	····
	The licence will expire if no renewal application is received on or be	rity at least thirty days, before the expiry date of licence, to avoid payment of late fore the expiry date. FORM 14
		the Explosive Rules, 19831.
		by an importer on despatch of explosives from the place or port of loading
Impo	rters name and address	
Impo	rt licence No. granted by Central Government kinds and quantities of	explosives permitted to be imported and date of expiry of licence.

Imported licence No. granted by Chief Controller under Explosives Rules and date of expiry of licence.

Name and ad	dress of manufact	urer of Explosives			
Name and ad	dress of consignor	r			
Place or port	of despatch				
Name of ship	o/Airlines and date	of sailing/ Airlift			
Place of port	or import				
Likely date o	f arrival				
		Kinds	and quantities of explosives on th	ne ship/aircraft	
Name and Description	Class and	Date of Batch No.	Quantity No. of packages	Division	manufacture
		Sign	nature of Importer		
(Authorised	d person in case of	company)			
Date	•••••	Name in full			
Place:		Address			

FORM 15

[See rule 23 (b) of the Explosives Rules, 19831

Importer's Despatch Schedule

This Form should be filled up as soon as any consignment of explosives is cleared from the place or port of import and forwarded in triplicate to Chief Controller of Explosives.
Name and address of importer
Import licence No. granted by chief controller and date of expiry of licence
Description of Explosives
Name And address of consignor
Quantity of explosives imported
Place or port from which explosives were forwarded
Name of ship or Airlines
Date of arrival and place or port of import

Particulars of despatch from place or port of import

Name and address of licensee to whom explosives were despatched Licence No. and form	explosives despatched Name Quantity No. of packages	Quantity of class	be Batch No. and date of despatch mode of despatch road van Licence No. if despatched by road
	Signature of importer		
Date	Name in full		
			FORM 16
			[See rule 32 (2)]
	Pass granted	by the hold	er of Transport Licence (Explosives) for
	t	ransport of	a consignment of explosives
1. No			
2. This Pass covers	spackages c	ontaining fo	llowing explosives:

(i) (ii) (iii) (iv)	iption)	Class	Division, if any	Quantity	No. of Packages	Batch Number and date
(v)	(vi)				
While	e in tran	sit from.		to		···
3.	The ex	plosives	are being transpor	ted by rail/ro	ad Van No having lice	ence No till /Lorry, No /other non-mechanically propelled vehicle.
4.	Name	and addr	ress of consignee			
5.	No. an	d Form o	of Consignee's Lice	ence No.		
6.	Consig	gnee's or	der Noand date a	and quantity o	of each explosive orde	red
7.	Consig	gnee's let	ter No. and date in	timating read	iness to receive explo	sives
8.	Date o	f despatc	ch of consignment			
9.	Appro	ximate d	ate on which consi	gnment shou	ld reach in destination	
Signa	ture					
Holde	er of Tra	nsport				
Licen	ce No	•••••				

FORM 17

[See rule 156 (1)]

Distance required to be kept clear around Magazine/Store-house/Factory distance around the Magazine/Store-house/Factory premises proposed to be licensed for storage/manufacture of Kg. of explosives to be kept clear* from the under-mentioned building and works:

Buildings and Work Distances required to be

kept clear	not less than	observed (to be fille	
Mounded	Unmounded		by the applicant),
2(a)	2(b)		
2	3	4	5
Metres	Metres		

- 1. Room or workshop used in connection with the magazine.
- 2. Any other explosives magazine, storehouse, or factory of the applicant.
- 3. Magazine office.
- 4. Magazine Keeper's Chowkidar's

dwelling house.

- 5. Railway including mineral and private Railway.
- 6. Canal (in active use) or navigable water. other
- 7. Dock or Pier or Jetty.
- 8. Public highway or public roads.

ed

- 9. Private road, which is a PRINCIPAL, means of access to a temple, mosque, church, gurudwara or other places of worships, hospital, college, school or factory.
- 10. River embankments, sea embankment, or public well.
- 11.Reservoir or bunded tank/ropeway.
- 12. Dwelling house.
- 13.Govt. & Public building.
- 14.Temple, mosque, gurudwara, church or other place of worship.
- 15.Shops, market place, public recreation and sports ground, college, school, hospital, theatre, cinema or other buildings, where the public are accustomed to assemble.
- 16. Factory.
- 17. Buildings or works used for the storage in bulk of petroleum, spirit, gas or other inflammable or hazardous substances.
- 18. Buildings or works used for the storage and manufacture of explosives or of articles, which contain explosives.
- 19. Aerodrome.
- 20. Furnaces, Kiln or Chimney.
- 21. Quarry or mine pit head
- 22. Powerhouse or electric sub-station.
- 23. Wireless station

storage buildings. 25. Electric power overheads Transmission lines above 440 V. 26. Electric power overheads Transmission lines below 440 V.	
Certified that I have personally checked the replies given a	bove and that they are true statement of the surroundings of the premises.
Signature of Applicant	
(Authorised person in case of a company)	
Date Postal Address	
*The distance will be required to be kept clear not merely	on the first establishment of the premises, but during the continuance of the licence.
	FORM 18
	[See rule 156 (3)]
Distance to be kept clear around the magazine/factory/storto	e-house during currency of licence No.() in formgranted
Distance to be maintained by the magazine/Factory/store-h	nouse.
From Every No.	ot less than metres

24. Warehouse or other

- 1. Room or workshop used in connection with the magazine
- 2. Any other explosive magazine or store of licensee
- 3. Magazine office
- 4 Magazine Chowkidars dwelling house
- 5 Railway Including mineral and private railway
- 6 Canal (in active use) or other navigable water
- 7 Dock or Pier or Jetty
- 8. Public highway or public roads
- 9. Private road which is a principal means of access to a temple, mosque, gurudwara or other places of worships, hospital, school or factory
- 10. River embankment or sea embankment or public well 11. Reservoir or bunded tank/ropeway
- 12. Dwelling-house
- 13. Government and public building
- 14. Temple, mosque, gurudwara, church or other places of worship
- 15. Shops, market place, public recreation or sports ground, college, school, hospital, theatre, cinema or other buildings, where the publics are accustomed to assemble.
- 16. Factory
- 17. Buildings or works used for the storage in bulk of petroleum spirit, gas or other inflammable or hazardous substances
- 18. Building or works used for the storage and manufacture of explosives or articles which contain explosives 19. Aerodrome
- 20. Furnace, kiln or chimney
- 21. Quarry or mine pithead

23. Wireless station
24. Ware-house or other-storage buildings
25. Electric power over head Transmission lines above 440 Volts
26. Electric power over-head Transmission lines below 440 Volts
Distance will be required to be kept clear not merely on the first establishment of the premises but during the continuance of the-licence
For Chief Controller of Explosives
Controller of explosives
FORM 19
[See rule 155 (1) (b)]
Form of Idemnity Bond
To,
The President of India,
I/We
And/or gunpowder and having a factory or shop at
Sureties on his/their behalf hereby jointly an severally agree and undertake that we shall pay to the President of India, his successors and assigns on demand a sum of Rsfor which payment to be well and truely made we bind ourselves, our respective heirs, executors, administrators and assigns. I/We agree that the aforesaid amount may be utilised for the payment of compensation awarded to the dependents of such workers as may die as a result of accidents occurring in the factory or shop above mentioned and that such compensation amounts shall be a first charge on the immoveable properties mentioned in the Schedule hereunder and that the above undertaking shall remain in force until all compensation payable hereunder have been fully paid and shall be binding upon us, our respective heirs, executors, administrators and assigns.

22. Power-house or electric sub-station

We, our heirs, executors, administrators and assigns jointly and severally undertake to keep the President of India indemnified against all claims that may be made on behalf of workers dying as a result of accidents. In case the compensation awarded is paid to the dependents by us or by our heirs, executors, administrators and assigns the above written bond shall be void but otherwise it shall remain in full force and virtue.

It is hereby agreed that the liability of the sureties hereunder shall not be discharged by reason of time being granted or any other indulgence shown to the Principal(s) nor shall it be necessary for the President of India to sue the Principal(s) before suing the sureties for the amounts due hereunder.

Schedule above referred to

(Here full description of the immoveable properties should be given).

In witness whereof these presents have been duly executed on the day of 19

Full signature of licensee	
Father's name in full	
Age	
Profession	
Residence	
Full signature of Surety	
Father's name in full	
Age	
Profession.	
Residence	
Full signature of surety	
Fathers name in full	
Age	

Profession	
Residence	
Station	
Date	

Executed in my presence

District Magistrate.

FORM 20

(See rule 155)

[Article 1 (a)-4d) of Sch. IV]

Licence to manufacture Explosives

No.	Fee Rs.	(per year)	
Licence is hereby gra	nted to	valid only	
for the manufacture of	f	at any one	
	remises described below subj conditions of this licence.	ect to the provisions of the Explosi	ives Act, 1884, as amended from time to time and the rules framed
This licence shall ren	nain valid till 31st day of Mar	ch 19	

This licence is liable to be suspended or revoked for any violation of the Act or rules framed thereunder or the conditions of this licence or if the licensed premises are not found conforming to the description shown in the attached plans and Annexures.

Description of the licensed premises

The licensed premises shown in plan Nos
attached hereto are situated at
District
and consist of
Postal Address of the Licensee
The19

Chief Controller-of Explosives

Endorsement for rene	wal of licence.	Controller of Explosives
Date of renewal	Date of expiry	Signature of licensing
authority		

CONDITIONS

(1) (a) Details of construction of mound ,buildings and works connected with the factory are given in Annexure 1 attached to be licence .

- (b) The process to be carried out in each building /part of the factory, the limitations as to the description and amount of explosives, ingredients and articles liable to spontaneous ignition or inflammable or otherwise dangerous to be allowed in each building and the maximum number of the persons to be employed in each building are given in Annexure II attached to the licence.
- (2) The materials as manufacturing processor the sequence of the operations or the operations carried out in each building or plant and equipments used for the process shall be carried out without prior approval of the licensing authority.
- (3) No change in the manufacturing process or the sequence of the operations or the operations carried out in each building or plant and equipment used for the process shall be carried out without prior approval of licensing authority.
- (4) No work not directly connected with the manufacture of explosives as specified in the process shall be carried on in any part of the factory.
- (5) The interior of the compartments of the buildings, in which explosives handled and the fitting therein (other than machinery shall be so constructed or so lined and covered or so lined and covered as to prevent or steel, or the detaching of any grit, iron, steel or manner as to come in contact with any explosives. The interior of such compartments shall be kept clean and free from grit.
- (6) All the machinery in the factory premises shall be properly and efficiently.
- (7) No additions and alterations shall be carried out in the licensed premises with out a previous sanction in writing of the licensing authority. Such additions and alterations so sanctioned shall be shown in the amended plan attached to the licence.
- (8) If the licensing authority or a Controller of Explosives calls upon the holder of the licence by notice in writing to execute any repairs or to make any additions or alterations to the licensed premises or machinery, tools or apparatus which are in the opinion of such authority necessary for the safety of the premises or of the persons working in the factory, the holder of the licence shall execute the repairs, additions or alterations within the period specified **by** such authority.
- (9) Before repairs are done to any building or part thereof **in** the factory the same shall, as far as practicable, be cleaned by the removal of all explosives or mixed ingredients thereof and by thorough washing, and after such cleaning the conditions of this licence shall cease to apply to such building or part thereof until the same is again brought into use.
- (10) Due provisions shall be made, by the use of suitable working clothes without pockets, suitable shoes and by searching or otherwise or by such means, for preventing the introduction into danger area of the factory premises of fire, lucifer matches or any substance or article likely to cause explosion or fire, but

this condition shall not prevent the introduction of an artificial light of such construction, position or character as not to cause any danger of fire or explosion.
(11) The licensee shall keep records and accounts of all explosives manufactured and of all stocks in hand in Forms 31 and 32 and exhibit the stock books and records to any of the officers authorised under rule 179 of the Explosives Rules whenever such officer may call upon him to do so.
(12) Accidents by fire or explosion, and losses, shortage or thefts of explosives shall be reported without delay to the licensing authority and to the officer-in-charge of the Police Station.
(13) Work in each building shall be carried out strictly in accordance with the laid down working instructions and procedures.
(14) The licensee and every person employed in or about the factory shall take all due precautions for the prevention of accidents by fire or explosion in the factory and for preventing unauthorised person from having access to the factory or to the explosives therein and shall abstain from any act whatsoever which tends to cause fire or explosion and is not reasonably necessary for the purposes of work in the factory.
(15) The interior of the compartments of the building in which explosives are manufactured or handled and the machinery or fittings therein shall be thoroughly cleaned at the end of day's work. Sweepings from the compartments of the building in which explosives are manufactured or handled shall be carefully collected and disposed as per laid down procedure. The effluent shall be discharged only after proper treatment as per laid down procedure.
(16) The licensee shall appoint a qualified and competent person to supervise the manufacture of explosives and other process and to conduct the operations is accordance with the regulations.
(17) No iron or steel implements shall be used unless specially authorised by the licensing authority.
(18) Free access to the licensed premises shall be given at all times to any inspecting or sampling officer and all facilities shall be offered to the officer for ascertaining that the provisions of the Act and Rules and the conditions of this licence are duly observed.
(19) No workers are to enter or leave the Factory except by the gates provided for the purpose and workers shall leave the factory with all reasonable despatch after the expiration of their working hours.
(20) No worker shall enter any danger building or part of the facto other than those in which he or she is employed, except by the orders of the licensee or person incharge

(21) No person shall enter any danger building or "clean" area without firs putting on the magazine boots or shoes provided, and on no account are such boots or shoes to be worn except in the danger buildings or upon the clean platforms and they are never on any pretence to be deposited where they are liable to come into contact with grit. (22) Every person employed in any danger building shall before commencing work put on the danger building clothing provided. No pockets are to be worn in any clothing whether outer or under clothing. (23) All fire buckets are to be kept filled with clean water and ready for use. They are not to be removed from the positions assigned to them nor used for any but fire purpose. In frostly weather steps are to be taken by frequent refilling or otherwise to prevent the formation of ice in the buckets. (24) All machinery in danger buildings is to be examined daily and should the plant or machinery in any danger building appear to be out of order or should anything go wrong with it, the operation of machine is at once to be stopped. (25) Before work is commenced in any danger building all exit doors shall be unlocked and arranged so that they may be easily pushed open. No exit door shall be blocked by any table, packing case or other article. (26) All boxes and packages are to be lifted and carried and never dragged across the floors. No broken or defective package of explosive is to be sent out of the factory. Additional conditions. **FORM 21** (See rule 155)

[Articles 2 (a) and 2 (b) of Sch. 114

Licence to possess and sell Explosives

No per year
Licence is hereby granted to
This licence shall remain in force till the 31st day of March, 19
This licence is liable to be suspended or revoked for any violation of the Act or rules framed thereunder or the conditions of this licence or if the licensed premises are not found conforming to the description shown in attached plan.
Description of the licensed premises
The licensed premises are shown on drawing-
(i) No
(ii) Nodated
(iii) No
and consist of
Postal Address of licensee
Chief Controller of Explosives

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The .	Space for	19 Co renewal endorsement	ntroller of Explosives		
	ate of renewal	Date of expiry	Signature authority	_	
C	ONDITIONS				
(1)	The quantity of explosives	on the premises at any	one time shall not exceed	the licensable capacity.	
(2) licen	The magazine/store-house ce and of receptacles for, or to				Noof this
(3)	The opening of packages a	nd the weighing and pa	cking of explosives shall n	not be carried on in the magazi	ine/store-house.

(4)(i) Two or more descriptions or explosives which may be permitted to be kept in the magazine/store house by additional condition No...... shall

be kept only if they are separated from each other by an intervening partition of such substance and character, or by such intervening space, as will effectually prevent explosion or fire in the one communicating with the other.

Provided that-

(a) The various explosives of Classes 1(gunpowder) 2(nitrate-mixture), 3(nitro compound) and 4(chlorate mixture), safety fuses belonging to the 1st Division of the 6th (Ammunition) Class and such of the various explosives of the 2nd Division of the 6th (Ammunition) Class as do not contain any exposed iron or steel, may be kept with each other without any intervening partition or space.

(b)	The various explosives of the Ist division of 6th (Ammunition) Class may be kept with each other without any intervening partition or space;
(c) witho	Such of the various explosives of the 2nd Division of the 6th (Ammunition) Class as contain, any exposed iron or steel, may be kept with each other out any intervening partition or space;
(d)	the various explosives of the 3rd Division of 6th (Ammunition) Class may be kept with each other without any intervening partition or space;
(e) space	the various explosives of the 7th(Fireworks), Class other than those containing chlorate may be kept with each other without any intervening partition or e.
(ii) Cond	Save as aforesaid, two or more descriptions of explosives shall not be kept in the magazine/store-house notwithstanding the provisions of Additional lition No
	Explosives of the 3rd (Nitro compound) Class shall not be kept in the magazine after the expiration of one year from the date of their manufacture except the special sanction of a Controller of Explosives.
(ii) each	When such sanction has been given, a written certificate showing the period covered by the sanction must be obtained from a Controller of Explosives at inspection, and must be kept by the licensee and produced on demand.
-	When an explosive owing to its being not longer of standard purity or owing to signs of liquefaction or of excluded nitro-glycerine or liquid nitro bound is no longer fit for storage in the magazine/store-house the licensee shall comply, at his own expense, with such directions as to its disposal as the Controller or Controller of Explosives may issue.
interi	The interior of the magazine/store-house and the benches, shelves and fittings therein, shall be so constructed or so lined or covered as to prevent the sure of any iron or steel and the detaching of grit, iron, steel or similar substances in such manner as to come into contact with the explosives. Such or, benches, shelves, and fittings shall so far as is reasonably practicable, be kept free from grit and otherwise clean; and, in the case of any explosives to be dangerously affected by water, due precautions shall be taken to exclude water therefrom:
	ded that so much of this condition as relates to precautions against the exposure of any iron or steel shall not be obligatory in a building in which no sive other than explosive of the lst Division of 6th (Ammunition) Class is kept.

If the lightning conductor is tested by a Controller of Explosives, the licensee shall pay the fees prescribed for test. In the event of the test proving unsatisfactory, the same fees shall be payable by the licensee for each subsequent test until the lightning conductor is passed by the testing officer as satisfaction: Provided that the fees payable for a single test shall be charged for all tests made on a conductor during any one day: Provided further that where two or more lightning conductors are attached to one and the same magazine, the fees for the testing of all such conductors shall not exceed the fee prescribed in this condition, for testing a single lightning conductor. Due provision shall be made, by the use of the suitable working clothes. without pockets, suitable shoes, and by searching or otherwise, or by some such means, for preventing the introduction into the magazine/store-house of fire, lucifer matches or any substance; or article likely to cause explosion or fire, or of any grit, iron or steel; but this condition shall not prevent the introduction of an artificial light of such construction, position or character as approved by Chief Controller as not to cause any danger of fire or explosion: Provided that so much of this condition as applies to the exclusion of iron or steel, shall not be obligatory in a building in which no explosive other than an explosive of the 1st Division of the 6th (Ammunition) Class is kept. The licensee shall keep records and accounts of all explosives in stock and of all sales of issues in Forms 32 and 33 in his office and produce the stock-book and records to any officer authorised under rule 179 whenever such officer may call upon him so to do. (10) Any accident and all losses, shortage of stock and thefts of explosives, shall be reported without delay to the nearest police station, and the licensing authority. (11) Free access to the licensed premises shall be given at all reasonable times to and inspecting or sampling officer and every facility shall be given to such officer for ascertaining that the rules and conditions of the licence are duly observed. (12) No changes or alterations shall be carried out to the premises without prior approval of the licensing authority and the licensee shall comply with any condition that may be specified by the licensing authority in this behalf.

(13) If the licensing authority calls upon the holder of the licence by a notice in writing to take any action which may in the opinion of such authority be

necessary for the safety of the premises or the public, the holder of licence shall take such action within such period, not being less than one month from the date

of rec	reipt of the notice, as may be fixed by the notice.
	Magazine/store-house shall at all times be kept in state of good repair (or maintained in good condition). The licensee shall report to licensing authority with, if the magazine/store-house comes unfit for storage of any explosive for any reason whatsoever.
	The licensee shall submit at the end of every month a return in Form 36 to the licensing authority as well as the renewal authority in the Performa ribed from time to time so as to reach the above authorities by 10th day of the succeeding month.
(16)	Any encroachment of the safety distance shall be immediately communicated to the licensing authority for necessary advice and action.
(17)	The licensing authority shall be immediately informed for advice if any explosive is found deteriorated or unserviceable.
` ′	The explosive package shall be stocked in such a way so as to allow movement of at least one person to check the condition of all packages stored and to he manufacture particulars of each package.
(19)	The resistance of the lightning conductor to earth shall be as low as possible and in no case more than 10 ohms.
(20)	A distance of 15 meters surrounding the magazine/store-house shall be kept clear of dried grass or bush or flammable materials.
(21)	Every package of explosive at the time of bringing inside the magazine/store-house shall be examined for its sound condition.
(22)	Not more than four persons shall be allowed inside the magazine/store house at any one time.
(23)	Empty packages of the explosives shall be removed at the earliest and destroyed.
Addit	ional Conditions.

FORM 22

(See rule 155)

[Articles 3 (a) and 3 (b) of Sch.

subject to the provisions of Explosives Act, 1884,

Licence to possess and sell Explosives

No per year
Licence is hereby granted to for possession and use of
explosives of the quantities specified in additional Condition No
Description of the licensed premises
The licensed premises are shown on drawing
(i) Nodated
(ii) Nodated
(iii) Nodated
attached hereto and situated at
and consist of
The licence shall remain in force till 31st day of March, 19

			evoked for any violation of the Act, of description as per attached plans.	r rules framed thereunder or the conditions of this licence or if the licensed
Post	al	address	of licensee	
	···			
The		19)	
				Chief Controller of Explosives
				Controller of Explosives
				Space for renewal endorsement
	ONDITIO		ure of licensing authority	
(1)	The quantity of 6	explosives on the p	oremises at any one time, shall not exc	eed the licensable capacity.
(2) impl	_		ly for keeping all explosives specified keeping of such explosive.	in additional condition No of this licence and of receptacles for, or tools or
(3)	The opening of p	ackages and the w	eighing and packing of explosives sha	all not be carried on in the magazine/store-house.
				ept in the magazine/store-house by additional condition Noion of such substance and character, or by such intervening space, as will

effectually prevent explosion or fire in the one communicating with the other.

Provided that-
(a) The various explosives of Classes 1(gunpowder), 2(nitrate-mixture), 3(nitro-compound) and 4(chlorate mixture), safety fuses belonging to the 1st Division of the 6th (Ammunition) Class, and such of the various explosives of the 2nd Division of the 6th (Ammunition) Class as do not contain any exposed iron or steel, may be kept with each other without any intervening partition or space;
(b) The various explosives of the Ist Division of the 6th (Ammunition) Class may be kept with each other without any intervening partition or space;
(c) such of the various explosives of the 2nd Division of the 6th (Ammunition) Class as contained any exposed iron and steel, may be kept with each other without any intervening partition or space;
(d) The various explosives of 3rd Division of the 6th (Ammunition) Class may be kept with each other without any intervening partition or space.
(e) The various explosive of the 7th (Fireworks) Class other than 'those containing chlorate may be kept with each other without any intervening partition or space.
(2) Save as aforesaid, two or more descriptions of explosives shall not be kept in the magazine/store-house notwithstanding the provision of additional condition No
(3)(a) Explosives of the 3rd (Nitro-compound) Class shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of a Controller of Explosives.
(b) When such sanction has been given, a written certificate showing the period covered by the sanction must be obtained from a Controller of Explosives at each inspection, and must be kept by the licensee and produced on demand.

(5) When an explosive owing to its being no longer of standard purity or owing to signs of liquefaction or of excluded nitro-glycerine or liquid nitro compound is no longer for storage in the magazine/store-house, the licensee shall comply, at his own expense, with such directions as to its disposal as the Chief

Controller or Controller of Explosives may issue.

(6) The interior of the magazine/store-house and the benches, shelves and fittings therein, shall be so constructed or so lined or covered as to prevent the exposure of any iron or steel and the detaching of grit, iron, steel or similar substances in such manner as to come into contact with the explosives. Such interior, benches, shelves and fittings shall so far as is reasonably practicable, be kept free from grit and otherwise clean; and, in the case of any explosive liable to be dangerously affected by water, due precautions shall lie taken to exclude water therefrom:

Provided that so much of this condition as relates to precautions against the exposure of any iron and steel shall not be obligatory in a building in which no explosive other than explosive of the lst Division of 6th (Ammunition) Class is kept.

(7) If the lightning conductor is tested by a Controller of Explosives, the licensee shall pay the fees prescribed for such test. In the event of the test proving unsatisfactory, the same fees shall be payable by the licensee for each subsequent test until the lightning conductor is passed by the testing officer as satisfactory.

Provided that the fees payable for a single test shall be charged for all tests made on a conductor during any one day:

Provided further that where two or more lightning conductors are attached to one and the same magazine, the fee for the testing of all such conductors shall not exceed the fee prescribed in this condition for testing a single lightning conductor.

(8) Due provision shall be made, by the use of suitable working clothes without pockets, suitable shoes, and by searching or otherwise, or by some such means for preventing the introduction into the magazine/store-house of fire, lucifer matches or any substance, or article likely to cause explosion or fire, or of any grit; iron or steel but this condition shall not prevent the introduction of an artificial light of such construction, position or character as not to cause any danger of fire or explosion:

Provided that so much of this condition as applies to the exclusion of iron or steel, shall not be obligatory in a building in which no explosive other than an explosive of the lst Division of the 6th (Ammunition) Class is kept.

- (9) The licensee shall keep records and accounts of all explosives in stock and used in Forms 32 and 34 in his office and produce the stock books and records to any officer authorised under rule 179 whenever such officer may call upon him so to do.
- (10) Any accident and all losses, shortage of stock and thefts of explosives shall be reported without delay to the nearest police station, and the licensing authority.
- (11) Free access to the licensed premises shall be given at all reasonable times to and inspecting or sampling officer and every facility shall be given to such

officer For ascertaining that the rules and conditions of the licence are duly observed.
No changes or alterations shall be carried out to the premises without prior approval of the licensing authority and the licensee shall comply with any condition that may be specified by the licensing authority in this behalf.
If the licensing authority calls upon the holder of the licence by a notice, in writing to take any action which may in the opinion of such authority be necessary for the safety of the premises or the public the holder of licence shall take such action within such period, not being less than one month from the dat of receipt of the notice, as may be fixed by the notice.
Magazine/store-house shall at all times be kept in state of good repair (or maintained in good condition). The licensee shall report to licensing authority forthwith if the magazine/store-house becomes unfit for storage of any explosive for any reason whatsoever.
The licensee shall submit to the licensing authority as well as the renewal authority at the end of every month a return in Form 36 showing receipts and ssue of explosives so as to reach the above authorities by 10 th day of the succeeding month.
Any encroachment of the safety distance shall be immediately communicated to the licensing authority for necessary advice and action.
17) The licensing authority shall be immediately informed for advice if any explosive is found deteriorated or unserviceable.
The explosive packages all be stocked in such a way so as to allow movement of at least one person to check the condition of all packages stored and to read the manufacture particulars of each package.
19) The resistance of the lightning conductor to earth shall be as low as possible and in no case more than 10 ohms.
20) A distance of 15 meters surrounding the magazine/store-house shall be kept clear of dried grass or bush or flammable materials.
21) Every packet of explosive at the time of bringing inside the magazine shall be examined for its sound condition.
22) Not more than four persons shall be allowed inside the magazine at any

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(23) Empty packages of the explosives shall be removed at the earliest and destroyed.
(24) The explosives shall not be used for blasting purposes in the areas not coming within the purview of the Mines Act, unless the licensee employs a qualified shot-firer holding a shot-firer's permit granted under the Explosives Rules or the person having equivalent qualifications as recognized by the Chief Controller.
(25) The licensee and the shot-firer shall be responsible for preparation of charges, the charging of holes and the firing of shots and shall take all precautions against fire and accident involving the explosives.
(26) No smoking or any source of light or fire shall be allowed in or near the place where explosives charges are being prepared or kept.
(27) For charging or stemming a shot hole, no person shall use an iron or steel tools, scraper or tamping rod, nor shall forcibly press the explosive into a hole of insufficient size. A tamping rod made entirely of wood shall be used.
(28) Before exploding any blasting charge, adequate measures shall be taken so as to prevent as far as possible, the projection of fragments of stone by the explosion of the blasting charge.
(29) No person shall re-bore or tamper a hole that has once tamper with empty holes or been charged or attempt to withdraw a charge either before firing or after a misfire or deepen or sockets left after blasting.
(30) Before commencing shot-firing the licensee shall give sufficient warning to the public by an efficient system of signals and by putting up red flags in the danger zone. He shall see that all persons in the vicinity have taken proper shelter and shall also take suitable steps to prevent any person approaching the shot.
(31) The licensee shall warn the public not to approach the site of blasting operation at least within an hour after explosion or in the case of an open quarry, not to approach such quarry within half an hour after explosion.
(32) The number of shots which explode shall be counted and unless it is certain that all the shots have been exploded no person shall approach or be permitted to approach the place until 30 minutes after the firing of shots.

one time.

	In the event of a misfire, if a relieving hole is to be drilled it shall not be placed within 30 cms. from the misfired hole. The relieving hole shall run llel to the misfired hole.
Add	tional Conditions
	FORM 23
	(See rule 155)
	[Article 5 (a)-(c) of Sch. Iv]
(a) mete	
	OR
(b)	Small arms nitro-compound not exceeding 5 Kgs. (in the State of Kerala).
	OR
(c)	Gunpowder not exceeding 5 Kgs. and safety fuse not exceeding 50 meters (in the State of Bihar, Kerala and West Bengal).
No .	Fee ^l [Rs.10
(free	of charge to cultivators)].
Lice	nce is hereby granted tovalid only for the possession on the premises described below of the following quantities of osives for own use subject to the provision of Explosives Act, 1884, as amended and rules framed thereunder and to the conditions of this licence.
	This licence shall remain in force till.

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		(See note be	low)	
Posta	al address of licensee.			
1. word	•	11 (E). dated 19th Jun w.e.f. 25th June, 1985	· · · · · · · ·	of India, Extraordinary, Pt.II, Sec. 3(i), dated 25th June, 1985, for the
			for any violation of the Act as ame und conforming to the description a	nded from time to time or the rules framed thereunder or the conditions of s per attached plans.
Desc	ription of the licensed	d premises.		
The l	icensed premises sho	wn in plan-		
(i)	No	dated		
(ii)	No	dated		
(iii)	No	dated		
	attached hereto are	situated at		
	and consist of			
			District Authority	
The.				
——— Date	of renewal	Date of expiry	Signature of licensing authority	

NOTE.-The licence if granted as per Cl. (a) of the preamble shall be granted for a period not exceeding ^l[three months].

1. Subs. by G.S.R. 511 (E), dated 19th June, 1985, published in the Gazette of India, Extraordinary, Pt. II, Sec. 3 (i), dated 25th June, 1985, for the figures and word "15 days" (w.e.f. 25th June, 1985).

CONDITIONS

- (1) The explosives shall be kept in a substantial building constructed of non-flammable materials or in a fire-proof box as may be approved by the licensing authority, separated from any-dwelling-house or other building another licensed premises, highway, street, public thoroughfare or public place by distance of minimum 45 meters and made and closed so as to prevent unauthorised persons from having access thereto and to secure it from danger from without.
- (2) The interior of the building or the box as a case may be and all fittings therein shall be so constructed, covered, or lines, as to prevent the exposure of any iron or steel, or of any hard or gritty surface or the entry, detaching or accumulating of any grit, iron, steel or similar substance.
- (3) Adequate provision shall be made for the ventilation and the interior of the building or box shall be kept scrupulously cleaned.
- (4) In case any of the explosive store is liable to be dangerously effected by water, due precautions shall be taken to exclude water from the storage place.,
- (5) Detonators shall not be stored along with other explosives. Detonators, if required shall be stored in a different building or fire-proof box located at a distance of minimum 1.5 meters from the building or box ,where other explosives are stored.
- (6) The doors of the building or the box shall open outwards, and shall be kept clearly closed or locked except when required to be opened for receipt or issue of explosives or for other necessary purposes.
- (7) All articles or substances of explosive or highly inflammable nature shall be kept at a safe distance from the explosives and from any room or part of a building or fire-proof box containing the explosive, and no person entering such room or part of building or opening such safe shall have any iron or steel in his possession or attached to or on his boots or shoes.
- (8) No tools, implements, balance, weights, etc. made of iron or steel shall be kept at any time on the premises.
- (9) All explosives exceeding 0.5 Kg. in quantity shall be kept in a substantial case, bag, canister or other receptacle made and closed so as to prevent the file:///DI/Created by Skorydov/EXPLOSIVE%20RULES%201983.htm (184 of 242) [7/20/2001 1:09:23 PM]

explosives from escaping.
(10) All losses, shortage of stock or thefts of explosives shall be reported without delay to the nearest police station and the licensing authority.
(11) If this licence is granted as per Cl. (a) of preamble the total quantity of explosives that can be purchased ² [during the validity of licence shall not exceed 25Kgs of Class 2 and/or Class 3 explosives, 500 Nos. of detonators and 1000 meters of safety fuse provided that maximum quantity of explosives that may be kept at any one time shall not exceed 5 Kgs. of Class- 2 and/or Class 3 explosives, 100 Nos. of detonators and 200 meters of safety fuse].
2. Subs. by Ibid, for certain words (w.e.f 25 th June,1985
(12) The licensee shall at the time of purchasing explosives have the following particulars endorsed upon his licence and signed by the person delivering the explosives:
(i) Name and address and licence No. of the person delivering explosives,
(ii) Name and address of the person who takes delivery of the explosives purchased;
(iii) The kind and quantities of explosives purchased;
(iv) The date of purchase.
(13) Explosives purchased on the strength of this licence shall not be sold or transferred to any other person.
(14) Free access to the licensed premises shall be given at all reasonable times to any inspecting or sampling officer and all facilities shall be afforded to the officer for ascertaining that the provisions of the Act and the rules and the conditions of this licence are duly observed.
(15) The stock of explosives remaining on expiry of licence shall be intimated to the licensing authority and the licensee shall comply with the instructions such authority regarding disposal of explosives.

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(16)	The licensee for the purpose of blasting explosives shall employ a qualified person holding a Shot Firer's Permit granted under these rules.
(17)	Maximum quantity of explosives that may be kept at any one time shall not exceed.
(i)	Gunpowder (Class 1)Kg.
(ii)	Small arms nitro-compound Kg.
(iii)	Safety Fuse Meters
(iv)	Nitro-compounds (Class 3) Kg.
(v)	Nitrate Mixtures (Class 2) Kg.
(vi)	Detonators Nos.
. ,	The licensee may by filling cartridges, making charge or otherwise adapt or prepare for use any explosive he is authorised to possess under this see provided that-
(a) the qu	The total quantity of explosives on the licensed premises including the workshop in which such adaptation or preparation is carried on, shall not exceed antity the licensee is authorised to possess;
(b) on;	No work unconnected with such adaptation or preparation shall be carried on in the said workshop while such adaptation or preparation is being carried

The said workshop shall be situated at a distance of meters as shown in plan No dated attached hereto;

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(d) An explosive of one description shall not be converted into an explosive of another description and an explosive shall not be unmade or resolved into its ingredients; and
(e) The licensee shall give notice to the authority which granted his licence that he intends to carry on such adaptation or preparations as is allowed by this licence.
Additional Conditions.
FORM 24
(See rule 155)
(Article 4 of Sch. IV)
100 Kgs. of Class 7, Division 2, Sub-division 2, or gun-powder not exceeding 25 Kgs. and safety fuse not exceeding 10,000 meters]. 1. Subs. by G.S.R. 41 (E), dated 15th January 1988 (w.e.f. 18th January, 1988) No
Licence is hereby granted to valid only for the possession and sales at the licensed premises described below o the quantities of explosives specified in additional condition No subject to the provisions of the Explosives Act, 1884, as amended, and the rules made thereunder and to the conditions of this licence.
This licence shall remain in force till
This licence is liable to be suspended or revoked for any violation of the Act as amended from time to time or the rules framed thereunder or the conditions of this licence or if the licensed premises are not found conforming to the description as per attached plans.

Description of the licensed premises

The licensed premises are situated at as shown in plan-No.....dated.... No.....dated. No.....dated. and consists of Postal address of Licensee.... The Controller of Explosives District Authority Endorsement for renewal Date of renewal Date of expiry Signature of licensing authority

CONDITIONS

- (1) All explosives on the premises shall be kept in a substantial brick stone or concrete building, which is closed and secured so as to prevent unauthorised persons from having access thereto.
- (2) The interior of every building and receptacle used for keeping explosives and the shelves and fittings therein shall be so constructed or so lined and covered as to prevent the exposure of any iron or steel, or the detaching of any grit, iron, steel or similar substance, in such manner as to come into contact with the explosives. Such interior shelves and fittings shall, so far as is reasonably practicable, be kept free from grit and otherwise clean.
- (3) The building or receptacle in which explosive is kept must be used only for the keeping of such explosive and for no other purpose whatsoever.
- (4) Explosives of different descriptions which may be kept under this licence shall be separated by an intervening partition of such substance and character; or by such intervening space, as will effectually prevent explosion or fire in the one communicating with the other

Provided that-

- (a) Small arms nitro-compound and safety fuses belonging to the lst Division of the 6th (Ammunition) Class may be kept with each other without any intervening partition or space;
- (b) The various explosives of the lst Division of 6th (Ammunition) Class may be kept with each other without intervening partition or space; and
- (c) The various explosives of the 7th (Fireworks) Class other than those containing chlorates may be kept with each other without any intervening partition or space.
- (5) Any quantity exceeding 2.5 Kgs. of an explosive of the lst Division of the 6th (Ammunition) Class or of the 2nd Division of the 7th (Fireworks) Class and all other explosives exceeding 0.5 Kg. must be kept in a substantial bag, canister or case made and closed so as to prevent any explosives from escaping and shall be otherwise packed and marked in accordance with the requirements of rules 8 and 9 of the Explosives Rules, 1983.
- (6) No oil, paints, matches, lights, any article of a highly flammable or explosive nature or liable to cause fire or explosion or any acids or similar substances, shall be brought or kept on the licensed premises.

(7) No tools implements belongs visights at a mode of inch or steel shall be bent at any time in the licensed mannings, and no negron on the licensed
(7) No tools, implements, balance, weights, etc. made of iron or steel shall be kept at any time in the licensed premises, and no person on the licensed premises shall have any iron or steel in his possession, or attached to or on his boots or shoes.
(8) The licensee shall keep records and accounts of all stock of explosives in hand and of all sales in Forms 32 and 33 and shall exhibit his stock and his
books and records to any of the officers authorised under rule 179 of the Explosives Rules whenever such officer may call upon him so to do.
(9) All sales of explosives under this licence must be effected on the premises described on the face of the licence.
(3) An saids of explosives under this feetice must be effected on the premises described on the face of the feetice.
(10) All losses, shortages of stock and thefts of explosives shall be reported without delay to the police station in whose jurisdiction the licensed premises are situated and to the licensing authority.
(11) Free access to the licensed premises shall be given at all reasonable times to any inspecting or sampling officer and every facility shall be afforded to the officer for ascertaining that the provisions of the Act and the Rules and the conditions of this licence are duly observed.
Additional Conditions.
FORM 25
(See rule 155)
[Article 9 of Sch. IV]
LICENCE FOR ROAD VAN
No(per year)
Licence is hereby granted toto transport
explosives by road van as described below subject to the provisions of the Explosives Act, 1884, as amended and the rules made thereunder and to the conditions of this licence.
This licence shall remain in force till.

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found conforming to following description-						
Description of road van	Description of road van					
Make						
Registration No						
Engine No						
Chasis No						
Description of other fittings						
Approval Drawing No. and D	Date					
Quantity of explosives permi	tted to carry					
Postal address of licensee						
Date						
	Controller of Explosives					
	Space for endorsement	of renewals				
Date of renewal	Date of expiry	Signature and office stamp				
	of licence	of the licensing authority				

This licence is liable to be suspended or revoked for any violation of the Act or the Rules framed thereunder or the conditions of this licence or if the van is not

CONDITIONS

(1)	This licence is not transferable to any other road van.
(2)	No alterations should be made to the vehicle, its body and other fittings without approval from the licensing authority.
(3)	This licence or its authenticate copy shall, at all times be kept in the van and produced on demand by an inspecting officer.
(4)	The road van shall not be used for transport of explosives unless it is in fit condition and complies with the Explosives Rules, 1983.
(5)	The road van shall not be used for transport of any material other than that authorised by this licence, unless permitted by licensing authority in writing.
(6)	No smoking and no fire or artificial light or any article capable of causing fire shall be allowed on the road van.
(7)	The vehicle shall not be used for carrying passengers.
	Road van, while explosives are being loaded or unloaded or transported shall always be under the charge of competent person who shall be experienced indling of explosives aid fully conversant thereunder. Where the vehicle is not driven by the licence holder, a document signed by the licensee naming one authorised to drive and accompany the vehicle shall be carried in the van and produced on demand to an inspecting officer.
(9) road	No explosives unless they are packed in accordance with the Explosives Rules or in a manner specified by the Chief Controller shall be transported in the van.
(10)	Detonators shall not be transported with any other explosives.
. ,	Any breakdown, accident, fire or explosion occurring in or involving the road van, shall be immediately reported to the licensing authority together with eport of such breakdown, accident, fire or explosion. If such accident, fire or explosion is attended with loss of human life or serious injury to person or

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property, a report shall also be made immediately to the nearest police station.

(12) consig	The explosives shall be loaded into the ignee.	van only at the licensed prem	ises of consignor and unloaded from	n the van at the licensed premises of the
(13)	The licensee shall maintain account of e Additional Conditions.	explosives transported in Form	m 35 and present the same on deman	nd by an inspecting officer.
			FORM 26	
		(S	ee rule 155)	
		(Art	. 8 of Sch. IV)	
	CENCE TO TRAN		PLOSIVES	
No	Licence is hereby granted to train		r year)	
S1. N	No. Name	Class	Division	
From	the premises licensed in Form		bearing	
licenc	ce Nosituated at nded and the rules made thereunder and to	the conditions of this licence	nces specified below subject to the p.	rovisions of the Explosives Act, 1884, as
Place	es of destination-			

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Sl. No.	Place	District	State		
This licence shall ren	nain in force till 31st day of I	March, 19			
This licence is liable	to be suspended or revoked o	on any violation of the Ad	ct or Rules framed there	eunder or conditions of t	he licence.
Postal address of the	licensee				
					Controller of Explosives
	Space for renewal endo	prsement			
Date of renewal Date	of expiry Signature of licens	sing <u>authority</u>			

CONDITIONS

- (1) This licence becomes void on the expiration of the terms mentioned therein or if a consignment breaks before reaching the place of destination or if the explosive is taken from or to any place other than places mentioned in the licence.
- (2) The licensee shall transport only such explosives as he is authorised to possess under the Act and the Rules framed thereunder.
- (3) The quantity of explosives despatched to any consignee shall not exceed the quantity, which such consignee is entitled to possess under a licence granted under these rules.
- (4) Each consignment of explosives shall be covered by a pass in Form 16 and that (when the explosives are transported by rail) such pass shall be attached to the way bill or the invoice as the case may be.

(5)	A copy of each pass issued for each consignment shall be sent to-					
(i)	Licensing authority;					
(ii)	Controller of Explosives in whose jurisdiction the premises to which the con signment is sent. is situated; and					
(iii)) The Controller of Explosives in whose jurisdiction the premises from which the explosives are sent, is situated.					
(6) of Ex	Any loss, shortage or theft of explosives in transit shall be reported without delay to the licensing authority and to the police station and to the Controller plosives in whose jurisdiction the loss, shortage or theft is discovered.					
(7) Addi	The explosives shall be packed and marked in accordance with rules 8 and 9 of the Explosives Rules. tional Conditions					
	FORM 27					
	(See rule 155)					
	(Art. 6 of Sch. IV					
Licer	nce to Import Explosives					
other	wise than by land					
No	Fee Rs					
Licer	nce is hereby granted toimport by sea/air at					
	one time explosives of the description given below at the port of for consignment to persons mentioned below subject to the provisions of the osives Act 1884 and the rules made there under and to the conditions on the back this licence.					
This	licence shall remain in force till the					

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Postal address of licensee	
The19	
	Chief Controller of Explosives

This licence is liable to be suspended or revoked for any violation of the Act as amended or the rules framed thereunder or the conditions of this licence.

Description of Explosives and Consignee

Name of	Weight	No. of package	Consignee's name	Licence No. of the	Remarks
explosives Class			and address to whom	magazine/store house of	
and Division			explosives will be	the consignee	
			from place of		
			import		

CONDITIONS

- (1) No explosives other than those permitted under this licence shall be imported.
- (2) The quantity of explosives imported shall not exceed that authorised by this licence.

(3) All explosives imported under this licence shall be packed and marked in accordance with rules 8 and 9 of the Explosives Rules, 1983.						
(4) No ship or boat or aircraft containing explosive imported on the strength of this licence shall bring to or more and no such explosive shall be unloaded or transhipped from any ship or boat or aircraft except at the port authorised by this licence.						
(5) The licensee shall comply with all the rules and regulations in force at the port of import mentioned in this licence.						
(6) The owner and master of the ship or boat or aircraft in which explosives are imported on the strength of this licence, shall, if and when required by an inspecting authority or the customs authority having jurisdiction over the place of importation, allow such inspector or officer to take for examination samples of any explosive so imported.						
(7) As soon as the explosive has been cleared from the place/port and despatched to the magazine/store-house for storage, the licensee shall complete the importer's transmission schedule in Form 15 and forward it to the Chief Controller.						
(8) The explosive shall be despatched to the various consignees mentioned in the licence directly from the port and the licensee shall make prior arrangements to ensure that there is no hold up of explosives at any place.						
(9) The imported explosives if of Class 3 or Class 4 shall not be unloaded from the ship or boat unless such explosives have been tested and permission to unload given by the Chief Controller of Explosives authorised for the purpose.						
Additional Conditions.						
FORM 28						
(See rule 155)						
(Article 7 of Sch. IV)						
Licence to Export Explosives otherwise than by land						
No Fee Rs						

Licence is hereby granted toto export by sea/air explosives of
The description given below from the port ofto persons mentioned
below subject to the provisions of Explosives Act, 1884, and the Rules made thereunder and to the conditions of this licence.
This licence shall remain in force till the
This licence is liable to be suspended or revoked at any time for violation of the Act or Rules framed thereunder or the conditions of this licence.
Postal address of licensee
The19

Chief Controller of Explosives

Description of Explosives and Consignee

Name of explosives Class	Weight	Number of packages	Consignee's name and	Remarks
and Division			Address	
1	2	3	4	5

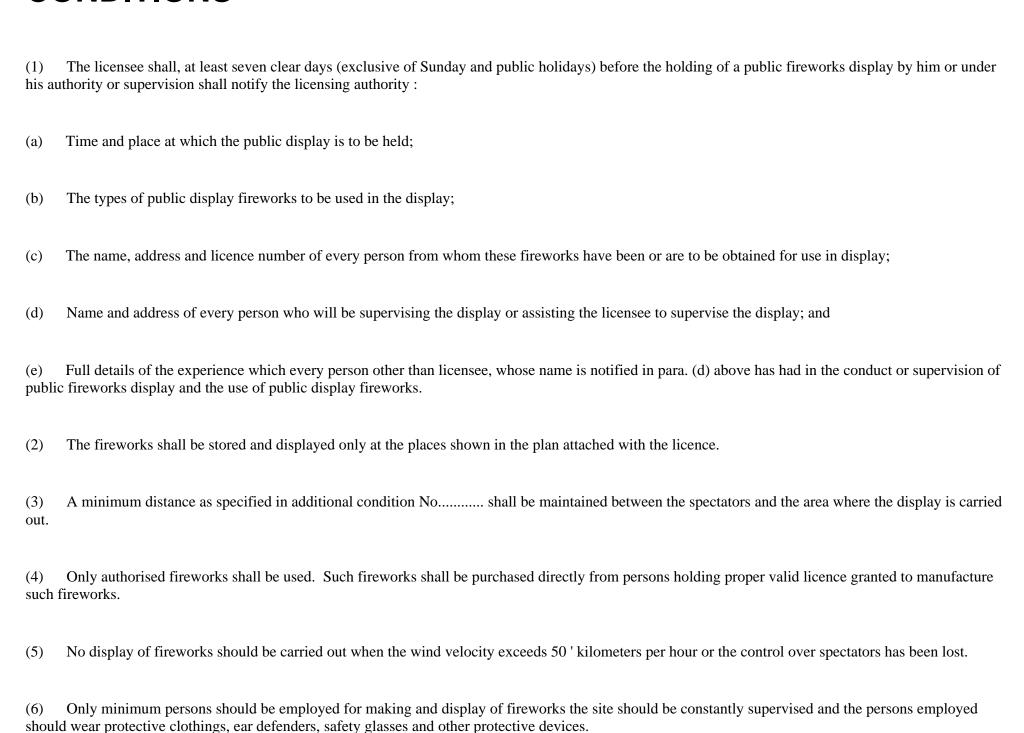
CONDITIONS

(1)	No explosives other than those permitted under this licence shall be exported.								
(2)	The quantity of explosives exported shall not exceed that authorised by this licence.								
(3) transp	The explosives shall be packed in accordance with Explosives Rules, 1983 and the packages marked accordingly. The packages shall be safe for port.								
(4)	The explosives shall be exported only from the place specified in this licence.								
(5)	The licensee shall comply with all the rules and regulations in force at the port or place of export mentioned in this licence.								
(6)	The explosives shall be brought to the port or place of export only after the ship or aircraft is ready.								
Addit	tional Conditions.								
									
	FORM 29								
(See 1	rule 155)								
	(Article 10 of Sch. IV)								
	Licence to possess and use Public Display Fireworks								
Licen	rce No								

Licence is hereby granted to
This licence shall remain in force till
This licence is liable to be suspended or revoked for violation of the Act or Rules framed thereunder or conditions of the licence or if the licensed premises are not found conforming to description as per attached plans.
Description of Premises
The premises to be used for public display fireworks are situated at
as shown in plan No
The premises of storage of fireworks are situated at
Postal address of licensee
Date

Controller of Explosives

CONDITIONS



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(7)	Once fireworks have been taken to the site, the site must not be left unattended or unprotected.
(8)	No fireworks shall be ignited inside of or closer than 15 metres of any tent, trailer, canvas shelter of motor vehicle.
(9)	No fireworks shall be ignited within 200 metres of any place where explosives, any flammable substance or other hazardous substances are stored.
10) agent	No fireworks shall be set off within 200 metres of a hospital, nursing home, schools or temples unless consent from local authorities and the owner or it is obtained.
	Adequate firefighting equipment to cope up with any fire, which can be reasonably anticipated, shall be provided. The type and quantity of first-aid and fire-fighting equipment shall be determined in conjunction with the firefighting authorities.
(12)	After the display, waste and duds, etc. shall be carefully collected and removed from the site and destroyed by burning under proper supervision.
(13)	The licensee shall follow the provisions of Act and Rules made thereunder as otherwise applicable.
(14)	No electrical wire shall be allowed within 10 metres of the area where the fireworks are laid down.
	The mortars must be buried half their length in the ground and tilted of by 10 ⁰ to 15 ⁰ and pointed away from the spectators. The mortars of the same size d be grouped and spaced not less than 50 centimeters apart. Groups of different size mortars should be placed at least 10 meters apart, the mortars or their should be securely anchored to the ground.
	Before starting the display the supervisor must check to ensure that the fireworks are exploding over a zone free of people and that debris are also falling at area. If not the firing must be stopped till necessary corrections are made.
(17)	No matches, lights or any article of flammable or hazardous nature liable to cause fire or explosion shall be brought or kept in the licensed premises.

No tools, implements, etc. made of iron or steel shall be kept at any time in the premises and no person on the licensed premises shall have any iron or steel in his possession or attached to or on his boots or shoes.							
19) The licensee shall keep records and accounts of all fireworks received, used and stock on hand.							
20) The licensee shall follow the local bye-laws at the place of storage and display and obtain necessary permission whenever required.							
21) The kinds and quantities of explosives remaining after the expiry of licence shall be intimated to the licensing authority and the licensee shall abide by the nstruction of such authority regarding disposal of explosives.							
22) If the licensing authority directs the licensee by notice in writing to make any additions/alterations which, in the opinion of such authority, is considered necessary for the safety of the premises or of the person working therein or the spectators the licensee shall execute such additions/alterations within such period as may be specified.							
23) Accidents by fire or explosion and losses, shortage or theft of explosives shall be immediately reported to the nearest police station and the licensing authority.							
24) Free access to the licensed premises shall be given at all reasonable times to any inspecting or sampling officer and every facility shall be afforded to the officer for ascertaining that the provisions of the Act and the Rules and the conditions of this licence are duly observed.							
Additional Conditions.							
FORM 30							
(See rule 144)							

Government of India

(Department of Explosives)

No
This is to certify that Shriborn
On
passed the shot-firer's examination held on
(Name of Examination)
examination held in
(month and year of examination) by
by
(authority conducting examination)
and is authorised to conduct blasting operations using explosive in areas other than mines coming under the purview of the Indian Mines Act, 1952, subject to the provisions of Explosives Act, 1884, as amended and the rules framed thereunder.
Place:
Controller of Explosives
Date:

(See rule 112)

Form of account to be maintained by a licensee

Accounts of Explosives Manufactured

NOTE. -This record should be kept up-to-date.

- 1. Date and shift No.
- 2. Brand Name of explosives
- 3. Class and Division
- 4. Dimensions of finished products
- 5. Batch Nos.
- 6. Quantity manufactured
- 7. Date of test
- 8. No. of packages
- 9. Magazine/ Store House Licence No. to which the explosives sent
- 10.Remarks
- 11.Signature of person incharge/ licence

FORM 32

(See rule 119)

Form of account to be maintained by licensee

Account of Receipt of Explosives

NOTE. -This record should be kept up-to-date. Entries should be made daily as and when explosives are received.

Licence	No	in Fo	orm	of Explosi	ves Rules,	1983 .					
Date	Description of Explosives	Opening balance	Explosive received by licensee	Quantity	Batch No.	Name address\$ licence No. of supplier	Mode of transport and road licence No. if transported by r	Pass No. van	Closing balance	Remark	Sign. of licence person-in-charge

(See rule 119)

Form of account to be maintained by licensee

Account of Sale of Explosives

NOTEThis record should be kept up-to-date. Entries should be made daily as and when explosives are sold.									
Licence No	in Form	of Explosives Rules, 1983.							

Date	;	Description o	f explosive		Opening Balance		Explosi	Explosives sold by licensee		
		Name Cla	ss Divisio	<u>n</u>			Name	Class	<u>Division</u>	
1	2	3	4	5	6	7	8			

9.Quantity	Batch No.	Name,	Mode of	Pass No.	Closing	Remarks	Signature of
	and date	Address and	transport and		Balance		licensee/person-in-charge
		licence No.	road van				
		of person to	licence No.				
		whom	if				
		explosives	transported				
		are sold	by road				

(See rule 119)

Form of account to be maintained by licensee

Account of Explosives used by licensee

NOTE.- This record should be kept up-to-date. The entries should be made daily and as soon as explosives are issued for use or unused explosives, returned.

Licence No...... in Form..... of Explosives Rules, 1983.

Description of Division	f explosiv	es issued	d Name	Class	Desc	ription of Explosive	es used	Name Class	Division
1 2	3	4	5	6	7	8	9	10	

Quantity used	Description of explosives returned Name Class Division	Qty. Returned	Sign. of Shot firer of Magin-charge.	Remarks
11	12 13 14	15	16	17

(See condition 13 of licence Form 25)

Form of account to be maintained by a licensee Account of Explosives transported by road van

NOTE. - This record should be kept up-to-date.

Licence No.

Date	Name, address and licence No. of the consignor	Place of loading	Description of explosives Class division.	Name	Batch No. and date of manufacture	Qty	transported
1	2	3	4 5	6	7		8

in Form 25 of Explosives Rules, 1983

	Pass No	Signature of the	Name, address and	Place of	Date unloading of	Signature of	Remarks
		consignor	licence of the	unloading	explosives	consignee	
		_	consignee				
ĺ	9	10	11	12	13	14	15

FORM 36

(See condition 15 of licence Forms 21 and 22)

Return of Explosives

	ived, Used, Sold, Destroyed and st	olen during the mon	thFr	om the Explosives	Magazine/Store House
Situa	ted at	District			
			Name of Explosives Cla	ass and Quantity Divisio	on
1.	Licence No of Explosives Rules, 1983.	in Form			

- 2. Opening Balance on the 1st day of the month
- 3. Account of Explosives

4

Date	Name of Class	Quantity	Partic	ulars of E	xplosives R	Received		Roa	$\overline{\mathbf{d}}$	
	Explosives		Name of Cla	Name of Class and Quantity Name, address Pass						
			and		and I	Licence				
			Explosives I from whom							
1	2 3 4		5 6	7	8	9	10			

Particulars of explosives Used or Sold

Date	Used Class and Qty ex		Class Divis	Sold s and Qty ex ion	kpiosives	Name, address and Lic. No. of person to whom explosives were sold	l .	Road Van Lic. No.
11	12 13	14	15	16	17	18	19	20
1.								
2.								
3.								
4								

4. Total quantity of each kinds of explosives used/sold. during the month.

Name of Explo	osives	and (Used Quantity Division	Class	Explosives	Sold Class and Division	Quantity
1		2	3		4	5	6
1.	2.						
3.							
4.							
5.							

5. Particulars of explosives destroyed receiving during the month.

Date	Name of	Class and	Quantity	Reason for	Authority under
	Explosives	division		destruction	which destruction
					was done
1	2	3	4	5	6
1.					
2.					
3.					
4. 5.					

6. Particulars of explosive stolen/ short received during transit.

Date	Name of	Class and	Quantity	Whether	Remarks
	explosives	division		theft/loss	
				reported to police	
				and Department	
				of Explosives, if	
				so, give reference	
1	2	3	4	5	6
1.					
2.					
3.					
4.					
5. 6.					

FORM 37

FORM OF FORM EXPLOSIVES

То,				
Dear Sir,				
Kindly supply the	following quantities of e	explosives to me/us:		
Sl No	Name	Class and Division	Quantity	

1.				7
2.				
3.				
4.				
5.				
				_
I/we hold a licence No	in fo	orm	••••	
	33, for possession/sale/use of			
r,	1	8 1	r	
S1.	Name	Class and Division	Quantity	7
1.				-
2. 3.				
4. 5.				
The above-mentioned lic	ence is valid till			
*The licence is sent here	with for necessary endorsem	ent as required under sub	o-rule (3) of rule 141 of Explo	sives Rules, f983. The licence may please be
returned after the endorse	ement.			
*The explosives may ple	ase be handed over to my/ou	r-authorised representati	ve whose signatures are attest	ed below:
Signature of authorised A	Agent			
Attested				
Signature of Licensee.		Yours Faithfu	illy,	

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LICENSEE .	DESIGNATION
Copy forwarded to the Controller of Explosives	
*Strike out whichever is not applicable.	
	FORM38
	(See rule 155)
	[Article 1 (d) of Sch. iv]
Licence to manufacture ANFO Explosives at site	
NoFee Rs	per
	valid only for the manufacture of
This licence shall remain valid till 31st day of March	' 19
This licence is liable to be suspended or revoked for a premises are not found conforming to the description	any violation of the Act or the rules framed thereunder or the conditions of this licence or if the licensed shown in the attached plans.

Description of the Licensed Premises

The li	icensed premises s	shown in plan No	attached	
	hereto are situate	d at	.district	and
	consist of			
Posta				
The			Controller of Explosives	
			Endorsement for ren	ewal of licence
Date	of renewal	Date of expiry	Signature of licensing the authority	
				-
				_
CON	DITIONS			

- 1. The explosives shall be manufactured in a lightly constructed shed observing at all times the safety distances specified in the approved plan attached hereto.
- 2. The shed shall have a smooth-cemented platform standing at least 30 cms. above the surrounding ground. The floor shall be surrounded by a brick wall at least 1 meter high with opening for entrance and exit on opposite sides.
- 3. The manufacturing shed and the area within 9 metres thereof shall be surrounded by a fencing not less than 2 meters high. The entire area so fenced off shall be kept free from rubbish, dry grass, empty bags or other combustible materials.

4. shall b	The process of manufacture shall consist of mixing or impregnation of ammonium nitrate with mineral oil. For the purpose of this condition mineral oil be deemed to include liquid derivatives of petroleum, coal or shell with a flash point not below 38 degrees centigrade.
5. lined v	The mixing or impregnation referred to in condition 4 shall be done in the manufacturing shed either by hand in an aluminium or internally aluminium wooden vessel or by a machine which has been approved, in writing, by the Chief Controller of Explosives.
6.	The explosives shall be manufactured under the immediate supervision of a qualified responsible person appointed in writing by the licensee.
7.	The licensee shall abstain from any act whatsoever which tends to cause f ire or explosion and shall take all due precautions to prevent
(i) advers	Contamination of the explosive or its ingredients with grit or any extraneous matter, which is likely to increase the sensitivity of the explosive or sely affect its characteristics;
(ii) U	Inauthorised persons having access to the place or places of manufacture, charging or handling of explosives or within 9 metres thereof.
8. thereo	Ingredients in excess of the quantity required for immediate use shall not be kept in the place where the explosive is manufactured or within 9 metres f.
9. manuf	No smoking, naked lights, matches or articles capable of producing sparks or ignition shall be allowed in the place or places where the explosive is factured, handled or used or within 9 metres thereof.
10.	Explosive shall be manufactured in quantities required for immediate use.
11. quanti	The total quantity of explosives together with the quantity of its ingredients kept in the licensed premises shall not at any one time exceed the licensed ty
12 cap-se	Explosive manufactured under this licence shall be tested at regular intervals to determine its cap-sensitivity. Any explosive, which on test indicates ensitivity shall be forthwith packed in an inner package, which is of such Strength as to prevent to escape of the explosive or oil and may be of polythene.

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dispos it and	outer package shall be of wood, solid fibreboard or aluminium. Such explosives and the licensing authority informed in writing for instructions regarding sal thereof. For the purpose of this condition one cartridge or bag of explosive shall be placed on an isolated soft ground, an electric detonator inserted into fried by a qualified shot-firer observing all due precautions. Formation of a crater on the ground below the cartridge or bag so fired shall be taken to attempt that the explosive is cap-sensitive.
13.	All spillage of explosive shall be collected and destroyed at a safe place away from the licensed premises under the supervision of experienced person.
14 water.	All containers and mixers used for manufacturing the explosive shall after use be thoroughly cleaned with suitable detergent solution and washed with .
15.	All denominators, priming cartridges, detonating fuse and other initiating explosives shall be stored in a magazine licensed for the purpose.
16.	The licence may fill into cartridges the explosives he is authorised under this licence provided
(i)	Such cartridge area filled only at the place marked in the approved plan attached thereof;
(ii)	The explosive is not unmade or resolved into its ingredients;
(iii) withir	No smoking, naked light, matches or any article capable of producing spark of ignition is allowed at the place where such cartridges are filled or a 9 meters thereof.
	No additions or alterations shall be carried out in the licensed premises—without the previous sanction in writing of the licensing authority. such additions erations so sanctioned shall be shown on the amended plan to be attached to this licence.
	Free access to the licenced premises shall be given at all times to any officer authorised under rule 179 of the Explosives Rules, 1983 and every facility be afforded to such officer for ascertaining that the provision of act Rules and conditions are fully observed.
19.	Accidents by fire or explosion shall immediately be reported to the nearest police station, the Director general of mines safety and to the licensing

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authority.

A Record and account of explosives manufactured under this licence and used shall be kept and the books and records shall be exhibited to any officer authorised under rule 179 of the Explosives Rules, 1983, whenever such officer may call upon the licence to do so.
The licensee shall submit at the end of every month a return showing the quantity of ANFO Explosives manufactured and used during the month to the licensing authority as wall as to renewal authority so as to reach above authorities.
Additional Conditions.
FORM 39
(SEE RULE 155)
[article 1(c) of sch. IV]
LICENCE TO MANUFACTURE, PPOSSESS AND SELL/USE LIQUID OXYGEN EXPLOSIVES
No
Licence is hereby granted to
valid only for the manufacture of
This licence shall remain valid till 31st day of March, 19
The licence is liable to be suspended or revoked for any of the violation of the Act or Rules framed thereunder or the conditions of this licence or if the licensed premises are not found conforming to the description shown in the attached plan.

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Description of the Licensed Premises

The licensed premises	are shown in plan No.		
att	ached hereto and are s	ituated at	
D	istrict	State	
licensee			ldress of the
The		Chief Controller of Explosives	
End	dorsement for renewal	of the licence	
Date of renewal	Date of expiry	Signature of the licensing authority	

CONDITIONS

- 1. The explosives shall be manufactured only in the premises licensed for the purpose as shown in the plan attached hereto.
- 3. The process of manufacture of the explosive shall consist in impregnating cartridges with liquid oxygen in vessels of a design approved the Chief Controller of Explosives and shall be carried out by or under the immediate supervision of an experienced responsible person appointed writing for the purpose by the licensee. Manufacture shall only be carried o between sunrise and sunset.

- 4. Insulated approved soaking vessels shall be mounted rigidly pneumatic tyred tractors having pneumatic/hydraulic brakes operate simultaneously with the brakes of the tractor unit and that the hitching shall allow movement around an axis but no lateral movement. The exhaust **of** tractor shall be covered by an efficient spark arrestor and shall be pointed in forward and downward direction. Tractors/vehicles with the articulated trailers shall be of a type approved in writing by the Chief Controller of Explosives.
- 5. The said cartridges shall contain materials as approved by the Chief Controller of Explosives.
- 6. The ingredients, i.e. cartridges and liquid oxygen until brought for soaking shall be stored separately.
- 7. Not more than four persons shall be allowed at any one time in premises in which the explosive is being manufactured and only persons actually employed in manufacturing and superintending manufacture shall within the licensed premises.

SCHEDULE

(See rules 31 and 36)

Explosives permitted to be imported and transported by air

Sl No.	Name and	. Class	Division	Quantity permitted in No Passenger			
	description			Cargo Aircraft Aircraft			

1.	*Aero plane flares				
2.					95
	Amorce	7	2		Kgs.
3.				25 Kgs.	70 Kgs.
	Chinasa Cuastrana	7		23 1165.	95 Kgs.
	Chinese Crackers	/	2		

^{*}The item can be transported by air as and when included in list of Authorised Explosives.

SI. No.	Name and description	Class Aircraft	Division	Quantity perr	mitted in
				Passenger	Cargo Aircraft
4.	Detonating Fuse	6	2	25 Kgs,	140 Kgs.
5.	Roman candles] 7	2	25 Kgs.	95 Kgs.
6.	Safety Fuse	6	1	25 Kgs	140 Kgs
7	Ship Distress Signal	.7	2		95 Kgs
8.	Smoke Candles			25 Kgs	95 Kgs.
9.	Sparklers	7	2	25 Kgs	95Kgs.
10	*Squiba Electric			25 Kgs	70 Kgs.
11.	(Aluminium or magne siuim) Torches	7	2	25 Kgs	95 Kgs.
12.	Very Signal Cartridges	7	2	25 Kgs.	45 Kgs.
13.	Wheels	7	2	25 Kgs	95 Kgs.

^{*}This item can be transported by air as and when included in list of Authorised Explosives.

SCHEDULE VII

Specifications

The specifications laid down in this Schedule are for general guidance only. Approval of the Chief Controller should be obtained separately for each case.

Specification 1

Specification for a road van for carriage of explosives only.

PARTI

- (1) Air space between body and cab. A clear space of at least fifteen centimetres shall be left between the body and cab.
- (2) Driver's cab. The cab shall be fitted and covered externally with 0.914 mm. aluminium sheeting. The wood if used shall be treated as to render it uninflammable.
- (3) Cab-Doors shall be fitted having windows of non-splinter type glass.
- (4) Wind Screen. A substantially framed windscreen shall be fitted with the portion in front of the driver's seat pivoted on strong brass quadrants for opening.
- (5) Fuel Tank.- The fuel tank (petrol) shall be in front of the fire screen described under item (11) below. It should be so located as to minimise the possibility of its being damaged should the vehicle be involved in an accident. Stone guards should be provided if required by approving authority.
- (6) Fuel cut-off.- A quick acting cut-off (for petrol lines) shall be fitted on the feed pipe in an easily accessible position and shall be capable of being operated without the necessity of lifting the bonnet and shall be so located as not to be involved in a fire in the engine.
- (7) Exhaust pipe and Spark Arrestor. The whole of the Spark Arrestor and exhaust piping shall be in front of the fire screen described in item 11.
- (8) Fire Extinguisher. Two chemical fire extinguishers of minimum 2 Kgs. shall be provided. The fire extinguisher should be capable of dealing with petroleum fire.

- (9) Self-Starter. A self-starter shall be provided.
- (10) Lighting. Electric head, side and tail lamps shall be provided and shall be operated from the dashboard. All electric wirings and battery cables shall be fully enclosed and maintained in good operating condition.
- (11) Fire Screen. Shall consist of one ply asbestos and 18 guage steel sheets fitted to the whole of the driver's cab and extending to within 300 mm. of the ground. The part extending from bottom of the cab to within 390 mm. of the ground shall be carried on an iron angle frame of light construction.
- (12) Body, A body conforming to the second part of this specification shall be fitted.
- (13) Spare wheels. One spare wheel inclusive of outer cover and inner tube shall be carried for each size of wheel on the chassis.
- (14) Painting and Markings. Body and cab shall be painted, marked, and lined with a colour approved by the licensing authority. The van should be painted with aluminium or white paint. The letter should be written prominently on the sides and rear of the van. The name and address of the licensee and the licence number should be written in small letters on one side. Vehicles holding inter-State/national permits shall be painted as per directions of Road Transport Authority. However, another circle of 60 cms. diameter in red colour should be painted on one of the flaps of rear door of van with letter 'E inscribed in the circle.
- (15) Total maximum load.- The total maximum load for a vehicle shall be equal to or exceed gross vehicle weight rating.
- (16) Inspection.- The whole of the work shall be to the satisfaction of the licensing authority who shall have free access at any time to the workshop fabricating the body and who may reject any material or workmanship which does not comply with this specification.

PART II

(1) The body framing is to be constructed of best-selected teak thoroughly seasoned and free from all defects. All joints are to be morticed and tenoned or half checked, depending upon their position in the structure, and securely fixed with screws. The joints are to be coated with white lead before assembly. All parts of the framing, which will be in contact with the outer metal panelling, are also to be thoroughly coated with which lead before panelling is fixed thereto. Iron plates, knees, etc. may be used for stiffening the framing where they are considered necessary, but no such iron work must be exposed in the interior of the

completed van body.

(2) Flooring. - This is to be constructed of teak boarding tongued and grooved 22.2 mm. thick and about 152.4 mm. or 177.8 mm. in width. It is to be recessed into the soleplate of the van body and below it is to be fixed a sheet of -914 mm. (20 S.W.D.) aluminium sheet. The flooring is to be supported by bearers about 28.6 mm. thick by 50.8 mm. wide, fitted between the soleplate and screwed on the top of the cross-members of the chassis frame.

The sill of the doorway has to have a fall outwards of 6.4 mm. and it should be covered with a brass plate full width of the doorway, 63.5 mm. wide inside, and having its outer edge turned downwards, and secured in position with brass screws.

Body panelling and lining. - The roof, floor, sides, ends and doors of the van are to be covered externally with .014 mm. (20 S.W.G.) aluminium sheeting and inner lining may be of asbestos or wood so treated as to be rendered uninflammable or with such other material as may be approved in writing by the licensing authority. This must have a smooth surface, free from distortion or any dents, and it is to be fitted to the framing in sections of convenient size. The roof beading is of aluminium 19 mm. X4 mm. whilst a (sic.) and end to a distance of 25.4 mm. the end turnover, being relieved at intervals of 152.4 mm. to allow the sheeting to lie flat on the framing. At all places where sheeting is fixed to the body framework, it has to be covered by a beading. The roof beading is of aluminium 19 mm. X 4 mm. whilst a wooden weather beading is run round the sides and ends where the joint with roof sheeting takes place. At other places aluminum beading 19 mm. X 4 mm. has to be used, excepting only the bottom joint of the side which is covered by a wooden rail 25.4 mm. wide, 38.1 mm. deep, and the central cover joint of the doors, which is formed with flat mild steel strap 38.1 mm. wide.

The interior of the van body has to be lined with 20 S.W.G. aluminium sheeting throughout, sides end, roof and doors, the lining has to be fitted in as few sections, as possible, and in all cases brass screws must be used for securing same.

(4) Doors. - Double doors are to be fitted at the rear ends of the body and they are to be a close fit all round the framing, panelling and lining of same being similar in all respects to the body works. They are to be bevelled along the bottom to make a watertight joint with the brass covered still of the doorway, and the central joint of doors must also be bevelled and covered with stapping as previously mentioned. The doors are to be hung on strong mild steel crook and bank hinges. The band section being 29.7 X8 mm. and these in turn are to be securely fixed to hinge and angle plates of section 44.4 X8.0 mm. on the rear frame posts of the van body. The hinges are to be so constructed and set that the doors will swing right round against the van body side, and facilities are to be provided for fixing the doors in this position.

A slot is cut in the clip and for the reception of a brass H. & T.V. padlock on the left hand side of the doors.

There shall be no opening in the body of the vehicle except through the doors at the back.

No holes shall be drilled in the chassis, unless allowed by the maker for the purpose of securing the van body.

(5) Body dimensions. - The inside dimensions of the body shall be suitable for the quantity of Explosives Proposed to be carried. The body shall be of such dimensions and fitted in such a manner as to keep the vehicle stable during transport of explosives.

Specification 2

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N)	occinication	ioi a moto	uuck ioi	Carriage (л саі		iogeniei	with cor	moressor umi

- (1) A clear air space of at least fifteen centimeters shall be left between the body and the cab.
- (2) The driver's cab shall be fitted and covered externally with .914-mm. 20 S.W.G. aluminium sheeting.
- (3) The cab doors shall be fitted having windows of non-splinter type glass.
- (4) A substantially framed wind screen shall be fitted with the portion In front of drivers seat pivoted on strong brass quadrants for opening.
- (5) The fuel tank shall be below the floor level and at least 0.5 M from the boxes carrying explosives. It should be so located as to minimise the possibility of its being damaged should the vehicle be involved in an accident.
- (6) A quick acting cut-off shall be fitted in petrol engine on the fuel feed pipe in an easily accessible position and shall be capable of being operated without the necessity of lifting the bonnet and shall be located as not to be involved in a fire in the engine.
- (7) The spark arrestor and exhaust piping shall be below the cab and shall not be below the body.
- "(8) A chemical fire extinguisher of minimum 2 Kgs. shall be provided. The fire extinguisher should be capable of dealing with petroleum fires.
- (9) A self-starter shall be provided for the engine.

	Electric head, side and tail lamps shall be provided and shall be operated from the dashboard. Electric torches (dry cell type) may be carried for use for during emergency.
(11) 0	One are wheel inclusive of outer cover and inner tube shall be carried each size of wheel on the chassis.
(12) No	o holes shall be drilled in the chassis unless allowed by the maker for the purpose of securing body.
(13 Т	The flooring is to be constructed of teak boarding tounged and grooved at least 21 mm. thick and about 150 mm. or 175 mm. in width.
(14) B	Base of the compressor should be minimum 150 mm. high from the floor or the truck body.
	A mild steel tray shall be provided underneath the compressor and shall be of such size and placed in such a way that all the oil drippings from the ssor shall fall in the tray.
(16) T	The exhaust pipe of the compressor shall face away from the boxes carrying explosives and shall be fitted with an efficient spark arrestor.
moveme	Only approved type of boxes will be used for carrying explosives and such boxes shall be firmly fixed to the body in such a way that there is no ent of the boxes when the truck is in motion. The empty space in the detonator box shall be filled with thermo Cole pad, foam pad or other similar material to protect movement of detonators during transport.
	Not more than two boxes for carrying explosives shall be fitted to any truck. One of the boxes shall be used for carrying high explosives and the other for ors. The boxes shall be fixed In a way that their doors do not open face to face.
(19) T 1,500 m	The distance between the explosive boxes shall be minimum 1000 mm. The distance between the compressor and the explosives boxes shall be minimum nm.
(20) A	A suitable fire screen shall be provided between the cab and the boxes carrying explosives.

- (21) A suitable asbestos or G.I. Sheet screen shall be provided between the explosives boxes and the compressor leaving adequate space for movement of operator for removing explosives from boxes.
- (22) The space between the fire-screen under Cl. 20 and the asbestos screen under Cl. 21 above shall be suitably covered so as to protect from weather.
- (23) Not more than 25 Kgs. of high explosives, 200 number of detonators and 200 metres of safety fuse-shall be carried in the truck.
- (24) The detonator box shall be fixed away from the battery side and the battery shall be carried in the cab below driver's seat.

Specification 3

Specification of metal cases for conveyance of explosives

General. -The body to be of wrought iron, mild steel, hard rolled brass, Muntzmetal or zinc rivetted or welded, or fitted at both ends with a substantial flange of same materials or of gunmetal for the attachment of lid and bottom; if of iron or steel to be thoroughly galvanised after making up or to be effectively painted. Thickness not less than 1.257 mm. (18BG = .0495 inches) or, if of zinc, not less than 9.5 mm.

The bottom to be of same materials as body or of gunmetal; if of iron or steel, to be thoroughly galvanised, securely rivetted to flange of body or forming part of such flange. Thickness not less than 3.2 mm. or, of zinc, not less than 9.5 m.

Alternatively the bottom may be made of mild steel of 4.8 mm. thick, thoroughly galvanised and dished so that it fits tightly over the body made of mild steel as above but without a bottom flange. The body to project at least 25.4 mm. into the dished bottom and the edges of the dished end and of the body to be welded continuously to the body and to the bottom of the dished end respectively.

The lid to be of same materials as body or of gunmetal; if of iron or steel, to be thoroughly galvanised. Thickness not less than 1.6 mm. at centre, and not less than 3.2-at rim, or, if of zinc, not less than 9.5 mm. throughout.

The lid to be secured by not less than four good screw bolts or swing bolts, with or without a substantial hinge. Which may take the place of one of the four screws, bolts, or swing bolts.

A washer of leather. India rubber or other suitable material to be between the lid and the flange, unless the lid is fitted with a projecting ring into a depression in the flange.

All rivet heads to be well finished, and the inside of the package to be free from rough edges or burrs.

The whole to be of good material and workmanship and to be maintained in a efficient condition.

Specification 4

Specification of metal cases of conveyance of explosives

Duralumin containers: Dimensions of container inside to be 902 mm. deep by 308 mm. wide by 267 mm. broad.

The body of container to be of 1.626 mm. (No. 16 S.W.G.) sheet in one-piece rivetted with 8.00 mm. (5/6ths Inch) diameter rivets 25.4 mm. pitch at seam, 50.8 mm. pitch at other three comers, having 31.8 mm. by 31.8 by 4.8

mm. angle rivetted on top and round bottom with 8 mm. diameter rivets 25.4 pitch.

Bottom of containers to be 3.25 mm. (No. 10 S.W.G.) sheet fitted with 31.8 mm. by 31.8 mm. by 4.8 angle all round and rivetted with 8 mm. diameter rivets. Comer pieces 2.642 mm. (No. 12 S.W.G.) sheet to be rivetted to angle and to bottom plate with 8 mm. diameter rivets.

Cover of container to be 2.032 mm. (No. 14 S.W.G.) sheet fitted with 37.6 mm. by 25.4 mm. by 4.8 mm. angle all round and rivetted with 8.00 mm. diameter rivets. Comer pieces 2.042 mm. (No. 12 S.W.G.) sheet to be rivetted to angle and cover plate with 8.00 mm. diameter rivets.

Cover to be fastened to container by four 12.7 mm. Whit-worth Set Pins with washers.

Rubber joint 31.8 mm. by 3.2 mm. thick to be rivetted to underside of cover plate by twelve 6.3 mm. diameter rivets, 15.9 mm. diameter holes to be bored in cover and joint to suit 12.7 mm. set pins.

Two Duralumin drop down handles to be rivetted to body of container.

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Specification 5

Specifications of metal cases for conveyance of explosives

The body to be of wrought iron or mild steel, thoroughly galvanised, thickness not less than 18 B.G. (495 inch) fitted at the--top with a flange 12.7 mm. thick made of the Aluminium Alloy (12.5 per cent. to 14.5 per cent zinc; 2.5 per cent. to 3 per cent copper; remainder aluminium).

The bottom to be of the aluminium alloy, not less than 12.7 mm. thick at the rim, and not less than 4.8 mm. thick at the centre, and provided with a protection 25.4 mm. high and at least 6.3 mm. thick, so made as to be a close Fit inside the body, to which it shall be rivetted with rivets 6.3 mm. diameter.

The lid to be of the Aluminium Alloy, not less than 12.7 mm. thick at the rim, and not less than 6.3 mm. thick at the centre, and secured by eight screwed studs to the flange.

A washer of leather, India rubber, or other suitable material to be between the lid and the flange, unless the lid is fitted with a projecting ring fitting into a depression in the flange.

All rivet heads to be well finished, and the inside of the package to be free from rough edges or burens.

Specification 6

Specification of Magazines

1. **General.** - The basic consideration in the construction of magazines are security to ensure that the contents are kept out of the hands of unauthorised persons; to maintain them in good condition and to reduce the risk of accidental explosion. This calls for a construction, which will resist illegal entry as much as possible and is well ventilated. In choosing a site for magazine, consideration should be given to any protection of life and property offered by natural features of the ground in the event of a fire and/or an explosion. The suitability of a site and the amount of explosives that may be stored are determined by its distance from public thoroughfares; residential or industrial areas, railways, etc. as specified in the table of safety distance in Sch. VIII. Naturally a site obscured from public view either by natural means is preferred.

Apart from the Rules and Regulations concerning the storage of explosives certain conditions should be observed from the point of view of care for the materials concerned, e.g. improper storage may lead directly to misfires later on. In all cases, places of storage should be dry, well ventilated and protected from extremes of temperature as much as possible. Stocks should be drawn upon in strict rotation, any surplus from the day's work being returned to the magazine and k(pt separately for use on the following day.

Safety fuse and detonators should be kept in perfect condition for obtaining good results. Therefore, at all times during transport, handling and storage, they should be protected from moisture and contact with oil, grease, kerosene or other liquids. Detonators shall not be stored with other explosives.

- **2. Types of Magazine. -** Magazines may be of heavy construction, i.e. steel, 1eintorced concrete, brick, stone or preformed concrete blocks. Maximum security is attainable only with steel or reinforced concrete structures. The intem6l dimensions of the magazine shall be such that there is ready access to all explosives.
- 3. Construction of the Magazine. A magazine shall be well and substantially built and shall be made and closed so as to prevent unauthorised persons from having access thereto and to secure it from danger from without.

MODE'A'MAGAZINE

A Mode 'A' magazine shall be of a type approved by the Chief Controller and shall primarily:

- (a) Have-walls of reinforced concrete at least 225 mm. thick **or** brick/stone at least 450 mm. thick set in cement mortar. Concrete shall have a minimum compressive strength of 2500 lb/sq inch at 28 days (the required strength will be reached by a mixture consisting of 1 part cement, 1 1/2 parts sand, 3 parts of aggregate by volume). Reinforcement should consist of square mesh, hard-drawn steel wire fabric, providing a cross-sectional area in each direction of not less than 0.21 in 2 ft of wall. The reinforcement shall be covered by not less than 50 mm. Of concrete on either side. The bricks and concrete blocks shall conform to relevant Indian Standard Specifications. Commercial grade steel is satisfactory for use in construction. The cement mortar shall consist of not less than one part cement and three parts of clean sand;
- (b) Have interior, and the benches, shelves and fittings therein so constructed or so lined or covered as to prevent the exposure of any iron or steel and the detaching of grit, iron, steel or similar substances in such manner as to come into contact with explosives. Such interior benches, shelves and fittings shall be kept free from grit and otherwise clean; and in the case any explosive that is liable to be dangerously affected by water due precautions shall be taken to exclude it therefrom;

(c)	Have roof reinforced concrete at least 150 m. thick;
desire	Have one ventilator at the top and bottom in each opposite sidewall of the magazine where the weight of explosive stored is upto and including 500 Kgs. ninimum two in the top and bottom of each wall where the weight of explosive stored exceeds 500 Kgs. Number of the ventilators may be increased if ed by the licensing authority. The ventilator shall be 22.5 cm.x ll.25 cm. Z type fitted with frame of iron bars set firmly in the wall on the outer face, the o be of 2.35 CM2 (3/8 sq".) iron set angle wise with the frame. The inner opening to be protected with brass wire guage of 3 mesh per centimetres;
(e)	Have external doors-
(i)	That open outwards and when closed fit tightly;
(ii)	To be constructed of steel plate at least 5 mm. thick with or without internal lining of wood;
(f)	Have every internal door
(i)	Made of wood;
(ii)	Locks and fittings of non-ferrous metal;
(g)	Have external door locks of "dead lock" type;
	Have a separate room for storage of detonators or other explosives of Class 6 Division 3 if stored within the magazine. Such room shall have independent ace and a minimum air-gap of 1 metre from any other room in the magazine and the thickness of the wall of the detonator storage room facing any other in the magazine shall be minimum 60 cm;
(i)	Have wooden tressels or raised cement platform for storage of explosive packages
(j)	Have a porc if necessary and any such porch shall

- (i) Be of the same construction as the remainder of the magazine; and
- (ii) Be used only for keeping all tools or implements used in connection with the magazine or the changing of clothes and shoes;
- (k) Have 25x5O mm. furring strips fastened to the wall, vertically on 300 mm. centres starting 150 mm. from floor and continuous to the stacking line, around the usable portions of the walls to provide air circulation and to prevent cases of explosives being stacked directly against the walls;
- (l) Have a minimum 12 mm. red line painted on the interior walls of the magazine at a height of 2.5 metres from the floor level. This line indicates the maximum height to which explosives may be stacked. The licensing authority may specify lower stacking height if deemed necessary;
- (m) Have an internal volume not less than 0.4 cubic metres for each 100 Kgs. of explosives. In addition, sufficient space shall be provided for passage between stocks of packages if required by licensing authority;
- (n) Have sufficient number of windows for proper lighting inside the magazine. The windows shall open outside and constructed of steel plate at least 5 mm. thick with or without internal lining of wood.

MODE 'B' MAGAZINE

A mode 'B' magazine shall be of a type approved by the Chief Controller and shall primarily---

- (a) Have walls of steel plate at least 5mm.thick:
- (c) Have interior lining at least 10 mm. thick on walls, doors and ceiling and 25 mm. thick on floor and consisting of closed fittings boards or wood joined together by tounge and groove joints in such a way that no iron or steel is exposed on the interior sides, ceiling, floor or doors;
- (d) Have an internal volume not less than 0.4 cubic metres for each 100 Kgs.of explosives. The maximum internal volume shall not be more than 2 cubic metres;
- (e) Be ventilated by means of vents, which shall be adequately protected;

- (f) Have external hinges of steel welded to the door and to the frame of the magazine;
- (9) Have a lock of "dead lock" type for external door.

Specification 7

Specification of a Store-house

The basic consideration in construction of a store-house are to ensure that the contents are kept out of the hands of unauthorised persons, to maintain them in good condition and to reduce risk of fire. This call for a construction, which will resist illegal entry as much as possible and is well ventilated. The place of storage should be dry and it should be possible to draw stocks in strict rotation.

The store-house should have walls built of brick, stone or concrete. The bricks and concrete shall conform to relevant Indian Standard Specifications. The cement mortar shall consist of not less than one part of cement and three parts of clean sand. The interior of the store-house shall be kept clean and all benches, shelves and fittings shall be so constructed or so lined or covered as to prevent the exposure of any iron or steel and the detachment of any grit, iron, steel or substances in such manner as to come in contact with the materials stored and such Interior, benches, shelves and fittings shall, as far as is practicable, be kept clean and free from grit. The store-house shall have wooden doors which open outwards and when closed fit tightly. The storehouse shall have adequate number of ventilators as desired by the licensing authority. The ventilators shall be provided at the top and the bottom of walls as suggested by the licensing authority. The ventilators shall be 22.5 cm.XII.25 cm. fitted with suitable frames firmly set in the walls on the outer face. The bars to be minimum 2.35 CM.2 set angle wise with the frame. The inner opening to be protected with wire guage of minimum 3 mesh per cm. The storehouse shall have a floor area of 2M.2 per tonne of explosives and have a minimum 12 mm. red line painted on the interior walls at a height 3 M. from the floor level. This line indicates maximum height i stacked. The gangway space of minimum 30 cm. usable portion of walls to provide air circulation. shall be provided for passage between the stacks of packages if required by the licensing authority. The licensing authority may specify lower stacking height if deemed necessary.

The store-house shall have sufficient number of wooden windows for proper lighting inside. The windows shall open outwards, The store-house shall have smooth, stone or cement flooring.

SCHEDULE VIII

Table of Safety Distances

The following safety distances shall be observed in the factories licensed for manufacture of explosives or from the magazine licensed for storage of high explosives. If the quantity of explosives to be stored is in between any two stages shown in the Table may be round the sufficient space

TABLE I

Table of Safety Distances

NOTE. - M denotes mounded; UM- denotes unmounded; distances in columns 2 to 13 are in metres

To and between magazine or magazine office etc. To and between Process bldgs. To Railway factories, etc. Road, etc.	fices,
--	--------

1	2	3	4		5	6	7	8	9	10	11	12	13	14
50	10	10	10	14	10	12	18	8	12	21	45	45	45	50
100	10	10	11	17	10	15	21	9	15	33	45	45	45	100
150	10	10	13	19	10	17	24	10	17	40	45	45	45	150
200	10	10	14	21	10	19	26	11	18	45	45	45	52	200
300	10	10	16	24	10	22	30	13	21	45	45	45	68	300
400	10	10	18	27	10	24	34	14	23	45	45	45	82	400
500	10	10	19	29	10	26	37	15	25	48	45	45	95	500
600	10	10	21	31	10	27	42	16	26	54	45	45	107	600
700	10	10	22	32	10	29	45	17	27	60	45	45	119	700
800	10	10	23	34	10	30	49	17	28	65	45	45	129	800
1000	10	10	24	36	10	32	56	18	32	74	45	46	148	1000
1250	12	10	26	39	12	35	64	19	33	86	45	52	171	1250

1500	12	10	28	42	12	37	72	19	36	96	45	57	192	1500
1750	12	10	29	44	12	39	79	19	38	106	45	61	211	1750
2000	13	10	31	46	13	41	85	20	40	113	45	65	226	2000
2500	14	12	33	49	14	44	97	21	43	129	45	73	257	2500
3000	16	13	35	52	16	46	106	21	46	142	45	80	283	3000
3500	16	14	37	55	16	49	114	22	48	152	45	86	304	3500
4000	17	15	38	57	17	51	122	22	501	63	46	92	325	4000
4500	17	16	40	60	17	53	129	23	52	172	47	98	343	4500
5000	20	16	41		20	55	135	23	54	180	49	110	359	5000
6000	20	18	44		20	58	145	24	57	194	49	117	387	6000
7000	22	19	46		22	62	155	24	61	206	50	123	412	7000
8000	22	21	48		22	64	163	25	63	217	50	128	434	8000
10000	24	23	52		24	69	177	26	69	236	53	138	471	10000
12500	24	26	56		24	75	192	26	72	255	53	149	510	12500
15000	25	28	60		25	79	206	27	78	280	55	158	560	15000
17500	25	30	63		23	83	216	27	82	290	55	167	580	17500
20000	26	32	65		26	87	226	28	86	303	57	174	605	20000
25000	27	36	71		27	94	244	29	93	325	58	187	650	25000
30000	28	40	75		28	100	259	29	98	345	60	199	690	30000
35000	30	43	79		30	105	273	30	104	365	60	210	730	35000
40000	30	46	82		30	110	285	30	108	380	61	219	760	40000
45000	30	48	86		30	114	296	30	113	395	61	228	790	45000
50000	30	51	89		30	118	307	30	118	410	64	236	820	50000
60000	30	56	94		30	126	327	30	128	435	64	251	870	60000
70000	30	60	99		30	132	343	30	138	458	66	264	915	70000
80000	30	64	140		30	138	359	30	148	480	66	276	960	80000
90000	30	68	108		30	144	373	30	158	498	66	287	995	90000

1	2	3	4	5	6	7	8	9	10	11	12	13	14
100000	30	72	112	30	149	387	30	168	515	67	297	1030	100000
112500	30	76	116	30	115	402	30	180	540	67	309	1075	112500
1250008	30	80	120	30	160	417	30	192	555	69	320	1110	125000
136000	30	84	124	30	165	428	30	203	575	70	329	1145	136000

[]	150000	30	88	128	30	170	446	30	217	590	70	340	1180	150000
[1	175000	30	95	135	30	179	466	30	242	625	71	358	1245	165000
	200000	30	101	141	30	195	487	30	265	650	71	375	1300	200000

TABLE 2

Safety Distance

Safety distances to be observed in factory licensed under Explosives Rules for manufacture of Sparklers only.

Distances are in metres

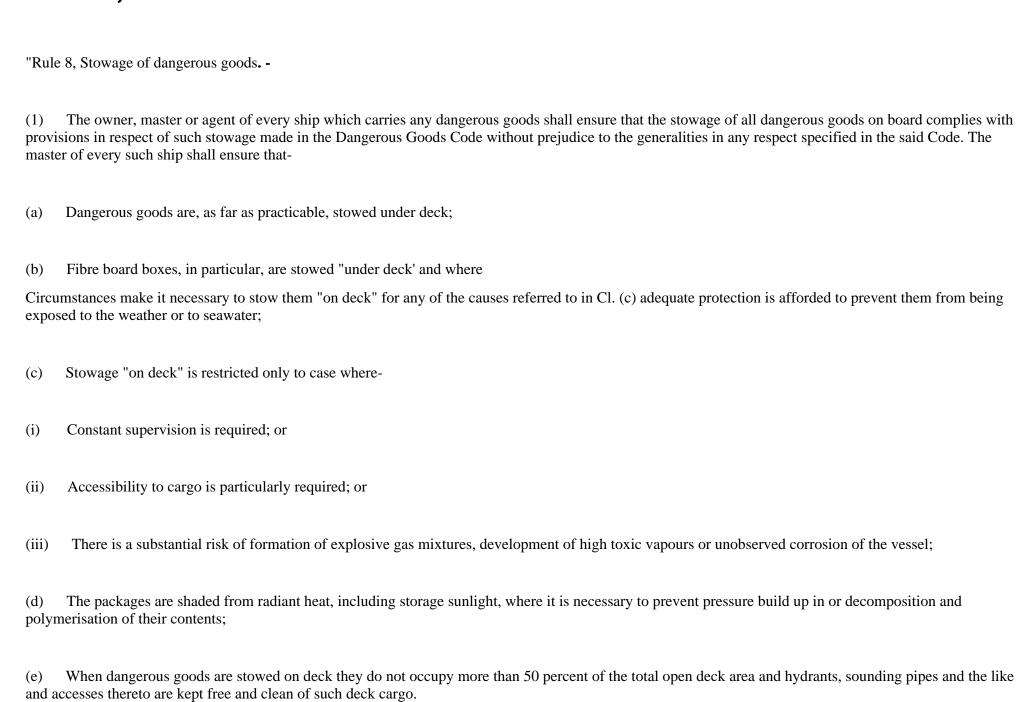
Sl. No	Description of shed	Mixing	Dipping	Drying	Packing	Empty	Raw	Outside	Quantity
		shed	shed	platform	shed	frames	material	safety	explosives
						shed	store	distance	Kgs.
1.	Mixing shed	6	6	9	9	15	15	15	50
2	Dipping shed	6	6	3	9	15	15	15	200
3.	Drying platform	9	3	3	9	15	15	15	200
4.	Packing shed	9	9	9	9	15	15	15	200

ANNEXURE I TO EXPLOSIVES RULES, 1983

Extract from the Merchant Shipping

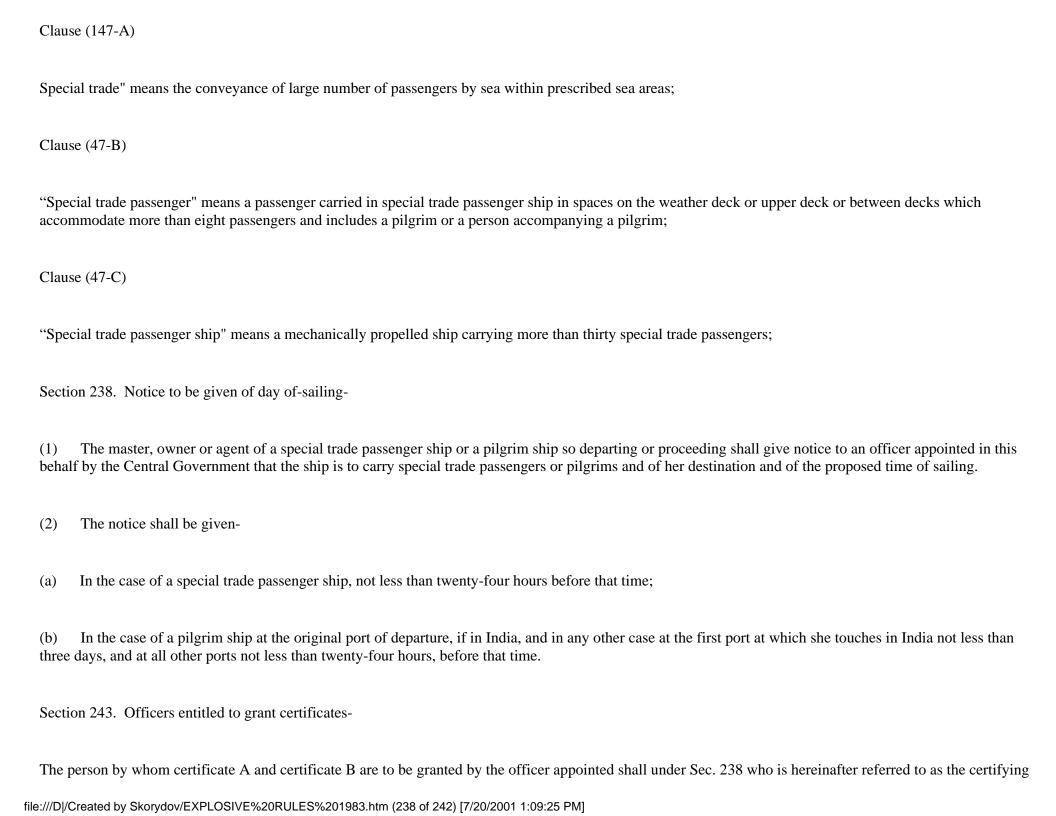
(Carriage of Dangerous Goods)

Rules, 1978



Without prejudice to the Provisions contained in sub-rule (1), the master of every ship carrying dangerous goods shall ensure that-(2) Dangerous goods and any vehicle, container, package or receptacle containing dangerous goods are stowed in a manner which is a safe and proper manner of stowage for the goods or, as the case may be, for the vehicle, container, package or receptacle, having regard to the identity and the dangerous nature of the goods-Explosives (except ammunition) which present a serious risk are stowed in a magazine which is kept securely closed while at sea and that such explosives are segregated from detonators; The electrical apparatus and cables in any compartment in which explosives are carried are so designed and used as to minimum the risk of fire or explosion; (d) When goods which give off dangerous vapours are stowed under deck the space used for such stowage is well ventilated; Special precautions against fire or explosion are taken, wherever required, while carrying inflammable liquids or gases. and ventilation adequate in the (e) circumstances, is provided for the spaces in which the liquids or gases are carried; and Substances which are liable to spontaneous combustion are not carried unless precautions, proper in the circumstances, are taken for the prevention of. (f) spontaneous combustion of such substances. ANNEXURE II TO EXPLOSIVES RULES, i983 Extracts from the Merchant Shipping Act, 1958 Section 3 Clause (16)

"Home-trade ship" means a ship not exceeding three thousand tons gross which is employed into trading between any port or Place in India and any other port or place on the continent of India or between ports or places in India and ports or places in Ceylon, Maladive Islands, Federation of Malaya, Singapore or Burma."



ANNEXURE III TO EXPLOSIVES RULES, 1983

Extract from the Indian Ports Act, 1908

Secti	on 7. Appointment of conservator
(1)	The Local Government shall appoint some officer or body of persons to be conservator of every port subject to this Act.
(2)	Subject to any direction by the Local Government to the contrary
(a) Ir	n ports where there is a port-officer, the port-officer shall lie the conservator;
(b)	In ports where there is no port-officer, but where there Is a
(3)	Where the harbour-master is not conservator, the harbour-master and his assistants shall be subordinate to, and subject to the control of, the conservator
(4)	The conservator shall be subject to the control of the Local Government, or of any intermediate authority, which that Government may appoint.
	ANNEXURE IV TO EXPLOSIVES RULES, 1983

Extract from the Board of Trade Memorandum relating to the Carriage of

Dangerous Goods and Explosives in Ships Specification for Magazines

Unless otherwise sanctioned by the surveyor, magazines are to be built in between decks, if possible. They must be so placed that their doors are easily accessible from a hatchway

2. Magazines may be constructed of steel, iron or wood, provided that if of steel or iron, the whole of the interior shall be thoroughly protected by paint, varnish, galvanising or other suitable coating: Provided that no gunpowder, picric acid or other bulk explosives packed in barrels be stowed in a steel or iron magazine unless the inside of the magazine, including all iron work, is covered with wood or other suitable material.
3. Flooring of all magazines shall consist of 3 inches by 1 inch gratings with a mesh of not more than 4 square inches. These gratings should be portable, to allow access for cleaning.
4. When magazines are constructed of wood they shall comply with following specification, viz.:
(a) The bulkheads to be formed of 1 1/4 inch boards secured internally to uprights 3 square inches placed not more than 2 feet apart, running from deck to deck and firmly secured top and bottom. Where the magazine is against the ship's sides and cargo battens are fitted, spaced not more than 9 inches apart other lining is unnecessary.
Where cargo battens are more than 9 inches apart filling pieces shall be provided.
Where on iron decks, the heels of the uprights to step on and be secured to a board of 1 inch thick laid on the deck.
Boards 9 inches by 14 inches to be securely fastened to the uprights at the upper and lower ends for securing heads of shores for tomming off.
(b) Except when built on cargo or in the square of the hatchway, a magazine need not be roofed over, provided that in the case of explosive of Classes III and IV, a clear space of not less than 3 inches shall be left below the bottom of the beams of the over deck.
(c) The door of the magazine shall be of substantial construction and fitted with a strong lock.
(d) When a magazine measures athwart ships more than 40 feet, a fore and after bulkhead must be fitted, constructed of uprights 3 inches square, 3 feet apart extending from deck to deck, secured at the top and. bottom as for side-bulkheads, lined up with 1 inch boarding not more than 6 inches apart, alternately on either side of the uprights. The ship's permanent stanchions may be used in lieu of the temporary uprights when they are in proper position and provided they are not more than 6 feet apart. gunpowder, picric acid or other bulk explosives packed in barrels are carried, the stanchions and any other metal work inside the mag4ine must be covered with wood or other suitable material.

5. Every magazine shall be efficiency ventilated, but any dock ventilator into or immediately over a magazine shall be covered by two thicknesses of fine wire guage, or fitted with a "Lawson" fire-proof cowl, or other efficient fire-proof covering. Steel or iron magazines unprovided with ventilators shall be ventilated into the hold by the provision of two inch holes in the bulkhead as close to the over deck as practicable.

Magazines on Cargo

6. When it is necessary to build the magazine on cargo the selected place is to be levelled off, and the bottom formed of 3 inches by 3 inches quartering, placed 2 feet apart, covered with 11/4 inches boarding, securely nailed. Uprights 3 inches square, 2 feet apart, running from the boards to the deck, above to fit tight and to be well driven in, cleared at the bottom and well tommed off at the top.

Remainder of magazine as previously detailed. Should the height of the proposed magazine exceed 8 feet the construction should be specially determined by the surveyors.

Portable Magazine for any Quantities

upto Two Tons

Measurement

(Size in accordance with the dimensions of the packages to go into it)

7. A frame is to be made of 2 inches by 3 inches quartering floored and boarded up with 14 inch boarding. Lid to be fitted with cleats on the inside to keep it in its place when slipped, and fastened with hasp, staples and a strong hanging lock of brass of galvarised iron.

ANNEXURE V TO EXPLOSIVES RULES, 1983

Extract from the Mines Act, 1952

Sub-section (j) of Sec. 2

"Mine" means any excavation where any operation for the purpose of searching for or obtaining minerals has been or is being carried on, and includes all works, machinery, tramways and sidings, whether above or below ground, in or adjacent, to or belonging to mine:

Provided that it shall not include any part of such premises on which a manufacturing process is being carried on unless such process is a process for coke making or the dressing of minerals.

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