

ROYAL GOVERNMENT OF BHUTAN



EXPLOSIVES RULES

MINISTRY OF HOME AFFAIRS

THIMPHU - BHUTAN

Operation and Enforcement of Explosives Rules

Home Ministry

Overall authority and control on import, transport, handling, storage and usage of explosives

STCB

RBP

Sole Importer and Main distributor of explosives

Zones

East West Central Southern
Responsible for transport, storage, within each zone

Home Ministry

- Approves explosives to be imported
- Issues permit to import
- Issues permit to road van as well as transportation of explosives

Home Ministry

- Provides overall guidance
- Special instructions if any from time to time

Home Ministry

- Issues permit
- To possess and use of Explosives
- To store Explosives in the magazine
- To shot firer

- Enforcement of explosives rules
- Prior verification before Home Ministry issues the permit
- Inspection of permises
- Surprise checks

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Rules and Forms – User-wise : easy reference guide

Category No.	Rules and Forms Directly relevant
1. Import of explosives	Rules (1) to (9), (16), (17), (62), (67) (69), (71), (72), (78), (79) Forms (1), (4), (9).
2. Transport of explosives	Rules (1) to (4), (7) to (9), (18) to (30), (62), (65), (66), (69), (71), (72), (78), (79), (80-1), (82), Forms (2), (4), (7), (8).
3. Storage of explosives	Rules (1) to (4), (10) to (15), (31) to (52), (62) to (64), (69) (71), (72), (78), (79), (89-1), (82), Forms (3), (4), (5), (6).
4. Usage of explosives	Rules (1) to (4), (7), (8), (53) to (64), (68), (69), (71), (72), (78), (79), (80-1), (82) Forms (4), (5), (6), (10).

Familiarizing with the conditions stipulated in each form gives a better insight into enforcing explosives rules and ensures safety.

CHAPTER - 1

Scope and Definitions

1. Scope

- (1) These rules cover the following types of explosives.
Safety fuse
Detonating fuse having as its core Penta Erythritol Tetra Nitrate (PETN)
Nitrate mixture class explosive
Lead azide based detonation class explosive.

2. Aims and objectives

- (1) Aims and objectives of these rules are to guide and control import, transportation, possession, use and storage of explosives to ensure their to rightful use and prevent accidents.

3. Definitions

- (1) “Authorized Explosives” means an explosive included in the list of authorized explosives published by the Royal Government of Bhutan Home Ministry from time to time in the Royal Gazette.
- (2) “Detonator” means a small tube of aluminum or copper or other materials approved by the Home Ministry of the following description.
 - (i) One end is closed.
 - (ii) The closed end is loaded with a charge of initiating explosive; the charge being so designed to produce an explosion in the desired manner.
 - (iii) The opened end is left open for insertion of safety fuse for initiating explosion within the tube or fitted with wire and other devices for initiating explosion within the tube and sealed.
- (3) ‘Permit to magazine’ means a magazine in respect of which a permit issued under these rules is in force.
- (4) ‘Magazine’ means a building specifically constructed in accordance with the design approved by the Law & Order Division of the Home Ministry and intended for the storage of more than 2.5 Kg. of explosives.
- (5) Protected works includes.
 - (i) Building in which persons dwell, work, assemble, school, college, hospital, theatre, cinema house, factory place of storage of hazardous substances, dams and reservoirs.
 - (ii) Any public road.

- (iii) Overhead tanks, high tension power lines, but does not include footpath, cart tracks, agricultural wells, pump sets connected therein.
- (6) 'Safety Fuse' means a fuse for igniting charge of other explosives which burn and do not explode and which does not contain its own means of ignition and of such design and construction that the burning of such fuse would not communicate laterally with to similar fuse.
- (7) 'Safety Zone' means the zone necessary for the maintenance of the distances required under the conditions of license to be kept clear between any licensed, factory shed, magazines or protected works.
- (8) 'Testing and inspection officer' means any officer of the Royal Government of Bhutan appointed on its behalf.
- (9) 'Transport' means movement of explosives from one place to another by land, sea or air in Bhutan.
- (10) 'Transfer' means letting on hire, lending, giving or parting with possession.
- (11) 'Van' a mechanically propelled vehicle for transport of vehicles by land.
- (12) 'Country of origin' means the country from where the explosives are imported.

4. **Safety distances**

Certain safety distances (are) to be observed from the magazines licensed for storage of high explosives. Details of safety distances can be had from Home Ministry.

CHAPTER - 2

General Provisions

5. Tests

Tests for ensuring that explosives manufactured are capable of being safely transported, handled, stored and used are as follows.

- a. Physical properties including consistency, reaction tendency, stability, affinity to moisture, segregation in transport or otherwise of the constituents, exudation, behaviour at low temperatures, specific gravity and such other physical properties as may be considered necessary.
- b. Chemical composition-determination of the percentage composition of the ingredients forming the explosives, and the quality of the ingredients employed in its manufacture.
- c. Stability-determination of stability after subjection to such varying environmental conditions as would tend to produce spontaneous ignition or variation in sensitiveness of on 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, impact.
- f. Air gap sensitivity and transmission of detonation.
- g. Velocity of detonation.
- h. Determination of strength.
- I. Composition of gases evolved upon explosion.
- j. Any other test that Law and Order Division of the Home Ministry may specify.

6. Authorization of explosives

- 1) Law & Order Division of the Home Ministry declares an explosive as an authorized explosive only when it has been declared so by the government of the country of its origin in accordance with the tests listed in No. (5).
- 2) Authorization issued by the Home Ministry as stated in 6(1) in respect of an imported explosive shall be valid for two years from the date of authorization, provided the foreign manufacturer certifies that its validity as an authorized explosive by its government is in force.
- 3) Law & Order Division of Home Ministry at any time can cause an evaluation of any explosive as per test in 5 and if as a result of this or otherwise, if he feels satisfied that the explosive is no longer safe for transport handling, storage it may decide deletion of such explosion from the authorized list.
- 4) A list of explosives authorized to be imported to Bhutan shall be published by the Home Ministry, Royal Government of Bhutan from time to time.
- 5) State Trading Corporation of Bhutan shall maintain an up-to-date list of

explosives authorized to be imported into Bhutan showing the brand or trade name of the explosives: the name and address of the manufacturers. The class, division, subdivision within which each explosive falls, and safety distances category and the corresponding U.N. classifications number and division.

7. Prohibition of unauthorized explosives

No person shall import, transport, possess, use or sell any explosive which is not an authorized explosive.

8. Restrictions on delivery and dispatch of explosives

- 1) No person shall deliver or dispatch any explosives to any one other than a person who is the holder of a license to possess explosive or an authorized agent of the holder of such a license; and authorization is given in writing.
- 2) The Explosives so transacted shall in no case exceed the quantity which the person is authorized to transact under these rules.
- 3) No person shall receive explosives from any person other than the holder of a license granted under these rules.
- 4) No person shall receive from or transfer explosives to any person for a temporary storage or safe custody in a licensed premises unless the prior approval is obtained from the Ministry of Home Affairs.

9. Packing, marking, weighing of Explosives

- 1) Packing, marking and weighing of explosives shall be in accordance with the rules, procedure, standards prescribed and approved by the government of the country of origin.
- 2) The rules, procedures and standards related to packing and weight duly enforced by the government of the country of origin must be furnished by the exporter to State Trading Corporation of Bhutan, for each explosive authorized by the Royal Government of Bhutan to be imported into Bhutan.
- 3) Law & Order Division of the Home Ministry may specify additional rules, procedures and standard of packing, marking and weight of explosives from time to time to meet the special needs of Bhutan. They are also to be compiled with the exporter.

10. Competent person

- 1) Every person holding or acting under a permit granted under these rules shall, whenever explosives are loaded, unloaded or handled, depute a competent person experienced in the handling of explosives to be present at and to conduct the operations in accordance with these rules.
- 2) No person shall handle or cause to be handled any explosive between the hours of

sunset and sunrise.

- 3) No person shall smoke, and no fires, lights or articles or substances of a flammable nature or liable to spontaneous ignition, or to cause or communicate fire or explosion such as acids, petroleum, carbide or calcium, compressed gases or such other hazardous substance, shall be allowed.

11. **Prohibition of matches, etc..**

No person in, or near any place where explosives are stored or handled or on any carriage conveying explosives shall:-

- a) have in his possession any matches, fuses or other appliances for producing ignition or explosion or any knives or other articles made of iron or steel; or
- b) wear boots or shoes with iron nails except when covered with shoes or boots of leather, rubber, felt or other material in the form of overshoes.

12. **Split explosive to be destroyed**

If any explosive escapes from the package in which it is contained or is split, such explosive shall immediately be carefully collected and destroyed as provided in these rules.

13. **Employment of children, intoxicated persons and certain other 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 storage, sale, loading, unloading or transport use of explosives or to enter any premises licensed under these rules.

14. **Precautions against danger from water or exposure to sun or heat**

- 1) In the case of any explosive which is liable to be dangerously affected by water, due precautions shall at all times be taken to prevent water from coming in contact with such explosive.
- 2) Packages containing explosives shall not be allowed to remain in the sun or exposed to excessive heat.

15. **Special precautions against accident and the exclusion of unauthorized persons**

- 1) No person shall commit or attempt to commit any act which may tend to cause a fire or explosion in or about any place where an explosive is stored or transported.
- 2) Every person possessing explosives and every person in charge of or engaged in the import, export, use, sale, transport and handling of explosives shall at all times:-
 - a) Comply with provisions of these rules and the conditions of any license relating thereto.
 - b) Observe all due precautions for the prevention of thefts and of accidents by fire or explosion.
 - c) Prevent unauthorized person from having access to the explosives.
 - d) Prevent any other person from committing any such act as is prohibited under sub-rule 15 (1).

CHAPTER - 3

Import of Explosives

16. **Restriction on Import**

- 1) No person shall import any explosives except under and in accordance with the conditions of permit granted under these rules. No person shall be granted permit for import of an explosive unless the explosive is an authorized explosive.
- 2) No person shall be granted an import permit unless he is a holder of a permit for possession in a magazine authorized for the type of explosive intended to be imported.

17. **Import by land**

- 1) No permit for import of explosives shall be granted without the previous sanction in each case by the Home Ministry of the Royal Government of Bhutan.
- 2) A person holding an import permit granted under these rules shall furnish a declaration in format (1) as soon as any shipment of explosives is cleared from the place of import.

CHAPTER - 4

Transport of Explosives

Part A-General

18. Permit for transport and issue of passes

1. No person shall transport explosives except under and in accordance with the conditions of permit granted under these rules.
2. Every consignment of explosives transported under permit shall be accompanied by a pass issued by the consignee in format No. (2).
3. Such pass shall be attached with the way bill, invoice or dispatch note as the case may be.
4. A copy of every pass issued shall forthwith be sent by the consignor to:
 - a. The permitting authority who issued permit for transportation of explosives to Bhutan.
 - b. DZONGDAG in whose jurisdictions the place to which the consignment is sent is situated.
5. No two or more different kinds of explosives shall be transported together in the same carriage.
6. No explosives shall be transported in any carriage plying for or carrying passengers.
7. The quantity of explosives transported shall not exceed 10 tonnes in any one carriage in "Plain" and 8 tonnes in any one carriage in "Hill" regions.

19. Place and time of loading and unloading

1. Every explosives shall be loaded and unloaded at a safe distance from the station building, passenger platform, dwelling houses, factories, public buildings and other buildings or places where persons assemble or any flammable or other hazardous goods are stored or handled.
2. Every explosives intended for transport by road whether under a permit or otherwise shall be loaded or unloaded only near a magazine with permit, or other premises having necessary permit.
3. Loading of explosives after sunset within a magazine with permit may be carried out up to 2200 hours at a well illuminated place approved by DZONGDAG.
4. No explosives shall be brought to any place of loading until the carriage into which is loaded is at that place in readiness to receive it.

20. Competent person in charge of carriage

1. Carriage shall at all times be in charge of an constantly accompanied by a

competent person experienced in handling of explosives, he shall supervise all loading or unloading operations and shall take all due precautions in regard to explosives transaction, receipt, storage and dispatch thereon: He shall not drive, conduct or maneuver the carriage in a dangerous manner. He shall not stop or delay at any place for a longer time than may be reasonably necessary shall not stop unnecessarily at any place where such stopping would be attended with danger to public.

Part B-Transport by road

21. Transport to any public place and other specified areas

No person shall transport or cause to be transported any explosive on any road within the limit of a municipality where such road is specifically prohibited for plying vehicles carrying explosives.

22. Permit for road van

No person shall transport or cause to be transported any explosives in a road van unless such vehicle is given permit under these rules to carry explosives.

23. Restriction on transport of explosives by vehicles other than road vans

No explosives shall be transported by any carriage which is not a road van. However, explosives may be transported by any carriage which is not a road van etc..

Provided that any explosive may be transported if the distance from the place of loading to the place of destination does not exceed 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 one able-bodied guard.
- c. A red flag is displayed on each cart.
- d. The packages containing explosives are suitably covered by a tarpaulin, and secured.

24. The loading of explosive van

1. The person in charge of loading explosives onto or into a vehicle for carriage shall ensure that the explosives are towed 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 retowed with as little disturbance as possible.

2. No person shall load or unload explosives onto or from a permitted vehicle, except when the engine of the vehicle is stopped, the wheels choked and the hand brake applied.
3. No person shall transport explosives in any towed vehicle or tow any vehicle transporting explosives.
4. No other goods shall be carried with the explosives.

25. Loading, unloading, maintenance and operation of road van

1. 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 completed as expeditiously as possible.
2. 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 container of explosive be thrown or dropped during such operation.
3. The vehicle shall be regularly be 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
 - f. The spare tyre and wheel are in a fixed position.
4. Explosives shall not be loaded on or 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.
5. The fuel tank of a vehicle carrying or containing an explosives 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 place where filling is not a danger to the public safety. The driver of the road van shall supervise filling of fuel tank keeping a fire extinguisher ready by his side.
6. 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.
7. When 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:-
 - a. 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;
 - b. Shall be away from any habitation or any godown containing articles of a flammable nature or other hazardous goods;
 - c. Shall inform the nearest police station about the location and temporary parking of the van;
- 8. The driver or operator of any vehicle carrying or containing explosive shall not drive or conduct the same in a dangerous or reckless manner.
- 9. Route passing through centers of dense habitation shall as far as possible, be avoided.
- 10. A road van while transporting explosives shall always be attended to by at least one able-bodied person (in addition to the driver) who is capable of looking after the vehicle.
- 11. When there is a convoy of two or more vehicles transporting explosives, where practicable, a space of at least 300 meters shall be maintained between each such vehicle.
- 12. Road van transporting explosives shall not be driven past fires of any kind on or near the highway or other thoroughfare.
- 13. 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.
- 14. The original license for van granted under these rules or attested copy of the same shall always be carried in the vehicle and produced on demand by the Inspection Officer.

26. 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 permit holder of the van shall keep the parking lights "ON" throughout the stay and if necessary also provide reflectors in such position as to convey warning of the presence of the road van to the drivers of other vehicles.

27. Wheel locks

Four wheel locks shall be carried in or on a permitted vehicle at all times when explosives are being carried in the vehicle.

28. Vehicle on fire

If any fire occurs on a vehicle containing explosives the drivers 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.

29. Accident to the vehicle

1. Where a vehicle transporting explosives is involved in an accidents, fire or any other occurrence, that causes a significant delay in the delivery of explosive or 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 permit holder who shall:
 - I. Inform the DZONGDAG in whose jurisdiction the accident has taken place giving the full details of explosives carried and accident.
 - ii. Arrange for safe storage and custody of explosives till a examination by OC, RBP, and then arrange for transport to the destination or place designated.
2. In case of break down of road van, the driver or the person in charge of the vehicles shall:
 - a. Make or permit to the made minor repairs if the repairs can be made without hazard;
 - b. 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 stored under proper security at a safe distance from the highway and at least 300 meters from any inhabited premises;
 - c. Inform the permit holder who shall in turn inform the DZONGDAG/RBP in whose jurisdiction the vehicle is broken down giving full details of the explosives and the circumstances attending the break down.

30. Fire extinguishers to be provided

1. Every road van shall be provided with 2 fire extinguishers of minimum 2 Kgs. capacity. One of the extinguishers shall be capable of dealing with electric fires and the other with engine fires, or such other similar fires in a van. The fire extinguishers shall always be kept in good working condition.
2. Fire extinguishers shall be located where they will convenient and ready for immediate use. Fire extinguishers shall also be examined and recharged according to the manufacturer's recommendations.

CHAPTER - 5

Possession, sale and use of explosives

Part A-General

31. Permit for possession, sale and use of explosives

1. No person shall possess, sell or use any explosive except under and in accordance with a permit granted under these rules.
2. The permit holder shall be responsible for all operations in connection with the possession, sale or use of explosives which may be conducted in the premises covered by the permit.

32. Possession in the permitted premises only

A person holding permit for possession of explosives granted under these rules shall store the explosives only in premises specified in the permit.

33. Protection from lightning

1. Every magazine shall have attached thereto one or more efficient lightning conductors designed and erected in accordance with the specification laid down in intentional standards as amended from time to time.
2. The connection 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 year by a qualified electrical engineer or any other competent person holding a certificate of competency in this behalf from the Department of Power. A certificate showing the results of such test and the date of the last test shall be hung up in a conspicuous place in the building.

34. Precaution during thunderstorms

Whenever a thunderstorm appears to be imminent in the vicinity of a magazine every person engaged in or about such magazine shall be withdrawn to a safe distance from such magazine and it shall be kept closed and locked until the thunderstorm has ceased or the threat of it has passed.

35. Building to be kept clean

1. The interior of every building used for storage of explosives shall not have exposed iron or steel surface and in loose detached manner to prevent their in coming contact with explosives. Interior of the building shall be kept clean and free from grit as far as possible.

2. A cemented trough at least 15 Cms. deep shall be provided near each entrance of a magazine to be kept filled with clean water. No person shall enter the magazine without dipping overshoes or feet in such a trough 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 used for storage of explosives.

36. **Maintenance of records**

Every person holding a permit 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. Records of transactions have to be maintained as per the forms in FORMAT- 3.

37. **Repairing of magazine**

Before repairs are done to any magazine or part thereof used for storage of explosives, the magazine shall be cleaned by removal of all explosives and by thorough washing.

38. **Prevention of introduction of hazardous articles**

The permit holder or is authorized agent for in charge of a magazine shall prevent persons employed or engaged in or about the magazine or from taking hazardous articles or substances therein by maintaining an effective system of search and also providing them and making them wear, while on duty, working clothes, without pockets, and without suitable shoes.

39. **Premises to be kept locked**

1. Any magazine with permit 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 other purpose in connection with the management of such premises.
2. The keys of the magazine with permit shall, at all times be kept secured in permit holder's own custody or of his authorized agent and shall be produced for opening the magazine whenever so required by an Inspecting Office. The name and address of the person with whom the keys will be kept shall be intimated to the permit issuing authority and DZONGDAG/RBP having jurisdiction.

40. **Guards to be provided**

1. The permit holder shall at his own expense provide for round the clock safe custody of the magazine a guard which shall be of such strength as the DZONGDAG, may consider it to be sufficient.
2. The permit holder shall be provided a shelter for the watchman on duty near the magazine.

41. Repacking or opening of packages

1. No packages containing explosives shall be opened in magazine.
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 permitting authority.

42. Explosives not to be kept in damaged boxes

The permit holder of every magazine shall ensure that the explosives are always kept in their original outer package. In case the outer package gets damaged so that the explosives contained therein cannot be stored or transported, such explosives shall be repacked only after the same are examined by RBP.

43. Storage of explosives in excess of the permitted quantity

1. The quantity of any kind of explosives kept in any permitted magazine shall not exceed the quantity entered in the permit against such kind of explosives.
2. Permit issuing authority may issue a permit for keeping explosives in excess of the permitted capacity entered in the permit when he is satisfied that such excess storage is essential and unavoidable due to circumstances beyond the control of the permit provided that the total quantity including excess to be accommodated does not infringe upon the corresponding safety distance.
3. The permit issuing 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 permitted quantity shall be stored in the magazine unless a permit in this behalf is obtained from the permitting authority by a letter or telegram.

Part B-Magazines

44. Storage in a magazine

An explosive if stored in a magazine shall be stored either in a magazine type A or type B. Details can be had from Home Ministry.

45. Restriction on use of type B magazine

Type B magazine shall be used for storage of explosive required for use for a temporary period for specific purpose and such magazines shall not be used for sale of explosives.

46. Mound of magazines

A substantial mound shall be provided near a magazine. If so required by the permitting authority. Such mound shall be of a type approved by the permitting authority and shall always be maintained in good condition to provide effective protection.

47. Magazine to be at ground level

A magazine shall be constructed at ground level only as a single storey building.

Part C-Sale of explosives

48. Explosives to be sold from licensed premises

No person shall sell explosives from any premises other than those permitted under these rules.

49. Defacing of marking prohibited

No person who sells any explosives shall alter or deface any printing or marking on the explosives or the packages thereof.

50. Restriction on sale of explosives

1. No person shall sell any explosives to any person who is not authorized 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.

51. Explosives not to be exposed for sale

1. An explosive shall not be hawked, sold or exposed for sale upon any highway, street, public thoroughfare or public place.

52. Small packages to be clearly marked

As far as possible an explosive should 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 all the particulars found in the original markings.

Part D-Use of explosives

53. Competent persons to be employed

No person shall use explosives for blasting. Employs a qualified shot-firer holding a shot-firer's permit granted under these rules.

54. Restriction on preparation of charges

An explosive of one description shall not be converted into an explosive of another description and an explosives shall not be unmade or resolved into its ingredients.

55. Restriction on conveyance of explosives to or at the blasting site

1. Explosive shall only be conveyed from the permitted storage premises to near the site in original unopened packages or in closed containers used solely for that purpose.
2. Explosives shall not be taken to a point nearer than 50 meters 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 permitted premises from which the same were taken.
5. The containers used for carrying explosive from original packages shall be maintained thoroughly cleaned and dried and shall be kept closed when not in use. The containers shall be provided with either handles or carrying straps of adequate strength and shall be conspicuously marked with the word "**EXPLOSIVE**".
6. Detonators shall be conveyed in special containers. These shall not be carried with other explosives. Batteries, dry cells and other sources of electric energy shall not be carried in the vehicle carrying detonators.

56. 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. Any explosive showing signs of deterioration of any kind should be reported immediately to the permit issuing authority and such explosive set aside for examination by such authority.

57. Precautions to be observed at site

1. The electric power at the blasting site shall be discontinued as far as practicable before charging the explosives.
2. No work other than that associated with the charging operations shall be carried out within 10 meters of the holes unless otherwise specified to the contrary by the permit issuing authority.

3. 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.
4. The holes which have been charged with explosives shall not be left unattended till the blasting is completed.
5. 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.

58. Suitable warning procedure to be maintained

The permit holder or a competent person appointed by him to be in charge of the use of explosives at the site shall lay down a clear warning procedure consisting of warning signs and audible signals and all persons employed in the area shall be made fully conversant with such signs and signals.

59. Precautions to be observed while firing

1. The end of the safety fuse should be freshly cut before being lighted.
2. The exploders 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.
3. 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.
4. 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 clean 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.

60. Precautions against stray currents

Where electrically operated equipment is used in locations having conductive ground or continuous metal objects, test shall be made for stray currents to ensure that electrical firing can proceed safely.

61. Person in charge to be responsible

The permit holder or a competent person employed by him to be in charge of blasting operations shall take all precautions against fire or accident involving explosives.

CHAPTER - 6

Permits

62. Application for permit

1. A person desiring to obtain or renew or amend a permit under these rules shall submit an application in writing to the authority empowered to grant, renew or amend such a permit.
2. The application shall be signed by the permit holder or applicant himself, as the case may be, or by a person authorized by him in writing in this behalf, and shall in the latter case, be accompanied by the written authorization
3. The applicant must also give information whether he had been convicted under any offence or ordered to execute bond during the past ten years; if it is in the affirmative, the relevant details are also to be furnished in the application.
4. Information if any, on earlier cancellation of permit also should be given in the application with relevant details.
5. If the application is meant for amendment and or renewal, it must be clearly super scribed at the top of the application.
6. Every application must clearly state the name, age and postal address of the applicant. In case where the application is made in the name of the company, the names and the addresses of the Directors and partners and the names, addresses and specimen signatures of person or persons authorized to sign correspondence in respect of license applied for, any change in such names and addresses should be immediately communicated to the licensing authority.
7. Every application in addition to the above must have its relevant specific details. These as applicable for getting permit/license covered in sections (63) to (67) are stated in Format (4).

63. Permit to possess explosives for own use

1. Permit to possess explosives for own use is issued as per Format (5).
2. Every application for grant of this permit shall consist of the following.
 - a. An application.
 - b. Plans showing site, location and construction details of the premises. The site plan should clearly show complete approvals road net work, surrounding areas, land marks and safety distances observed.
3. Transactions carried out as per this permit need to be maintained and furnished as per Format (3).

64. Permit to possess explosives for use

1. Permit to possess explosives for use is issued as per format (9).
2. Every application for grant of this permit consist of the following:
 - a. An application.
 - b. 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 approach road net work, nearby land marks distances from nearby protected works.
 - c. Drawing of the premises and the mounds if provided.
3. Transactions carried out as per this permit need to be maintained and furnished as per Format (3).

65. Permit for road van

1. Permit for road van is issued as per form (7).
2. Every application for grant of this permit consist of the following:
 - a. An application.
 - b. Drawing of the road van showing complete details of construction and other ancillary equipment provided.
3. Transaction carried out as per this permit need to be maintained with particulars of quantity and type of explosives transported with their batch number; pass number; place and date of loading and unloading; signature of the consignor and consignee; their addresses.

66. Permit to transport explosives

1. Permit to transport explosives is issued in the form (8).
2. Every application for grant of this permit shall give all the details outlined in (62).

67. Permit to import explosives

1. Permit to import explosives is issued in the form (9).
2. Every application for grant of this permit shall give all the details outlined in (62).

68. Short firer license

1. Short firer license is issued in the Format (10).
2. Every application for grant of this permit shall give all the details outlined in (62).

69. Grant of permit

1. Every permit granted under these rules shall remain in force until the expiry of the permit or immediately following the financial year in which a permit was passed.

70. Procedures to be observed before a permit in forms (6) and (10) is granted; on grant of permit for the same.

1. On receipt of the application with all details and after considering any representation made by the applicant the permit-issuing authority scrutinizes the application and ask the applicant to make changes considered necessary.
2. After receiving correct documents as per requirement of these rules the permit-issuing authority shall refer the application to DZONGDAG with the following information for the authority referred to make necessary verification/enquiry:
 - I. A draft of the permit.
 - ii. A description of the enquiry to be made.
 - iii. A statement showing the distances considered to be kept clear in and around magazine according to 'Safety distances' referred to in rule 4.
3. The DZONGDAG shall complete his enquiry as expeditiously as possible but not later than 15 days from the date of the reference made by the permit-issuing authority. He shall send his report to the permit-issuing authority along with all the relevant documents he had received earlier from the permit-issuing authority stating whether he has any objection to the applicant receiving a permit at the site proposed.
4. If the district authority objects to the grant of the permission any of the grounds specified in sub-rule (3), no permit shall be granted by the permit-issuing authority.
5. The permit-issuing authority on receipt of No Objection Certificate from DZONGDAG for grant of a permit may make such other enquiries as deemed necessary and take further action for grant of permit.
6. If No Objection Certificate can not be given, the authority concerning this decision shall record in writing its reasons for non refusal and communicate such reason and facts of the case to the permit-issuing authority. The reasons for not issuing No Objection Certificate may be communicated to the applicant if demanded, unless in the opinion of the permit-issuing authority such reason can not be divulged in the public interest.
7. Two copies of every permit granted shall be forwarded to DZONGDAG who shall forthwith endorse the permit after inspection to signify that all the requirements of these rules and the conditions of the permit have been complied with. Until and unless it is endorsed, the permit shall not come into force. If the decision were to be not to endorse, DZONGDAG shall immediately return the permit to permit-issuing authority together with a statement of his reasons for not endorsing it.
8. Every permit 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 format prescribed for it by these rules.

71. Amendment of permit

1. Any permit granted under these rules may be amended by the authority empowered to grant the permit provided that amendment shall not be inconsistent with the provisions of these rules.
2. A permit-holder who desires to have his permit amended shall submit the following particulars to the permit-issuing authority namely:-
 - a. An application stating nature of the amendment and the reason thereof or
 - b. The original permit together with enclosures to it;
 - c. Plan showing the details of the proposed amendment if such plans are required by the permit-issuing authority for the purpose of amendment;
 - d. The permit-issuing authority after scrutiny of the documents submitted under sub rule (2) and after making such further enquires and taking such action as deemed necessary may take suitable action to amend the permit.

72. Renewal of license/permit

1. Every application for the renewal of a license/permit shall be made so as to reach the licensing/permit-issuing authority or the authority empowered to renew the license/permit at least 30 days before the date on which the license/permit expires, and if the application is so made, the license/permit shall be deemed to be in force until such date as the licensing/permit-issuing authority renews the license/permit or until an intimation that the renewal of the license/permit is refused has been communicated to the applicant.
2. Every application for renewal of the license/permit shall be accompanied by the following documents:
 - a. The original license/permit together with its enclosures and approved plans, schedules and form,
 - b. Prescribed renewal fee only for license of Nu.
3. Every license/permit granted under these rules shall be renewable for three years where there has been no contravention of any of the rules, conditions.
4. No license/permit shall be renewed if the application for renewal is received by the licensing/permit-issuing authority after 30 days of the date of expiry.

73. Refusal to amend or renew a license/permit

1. The licensing/permit-issuing authority refusing to amend or renew a license/permit shall record its reasons for such refusal in writing.

2. The licensing/permit-issuing authority shall refuse to renew a license/permit if such license/permit can be revoked in accordance with the rules framed thereunder.
3. A brief statement of reasons for refusal to renew a license/permit shall be given to the holder of the license on demand unless in any case the licensing/permit-issuing authority is of the opinion that it will not be in public interest to furnish such statement.
4. Where the renewal of the license/permit is refused, the fee paid for the renewal shall be refunded to the licensee/permit-holder after deducting the proportionate fee for the period beginning from the date from which the license/permit was to be renewed up to the date from which renewal thereof is refused.

74. Suspension and revocation of license/permit

1. An order of suspension or revocation of a license/permit 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/permit-holder entered in the license/permit.
2. The suspension of a license/permit shall not debar the holder of the license/permit from applying for its renewal in accordance with the set rules.

75. Procedure on expiration, suspension or revocation of license/permit

1. A licensee/permit-holder on the expiration, suspension or revocation of his license/permit forthwith give notice to the licensing/permit-issuing authority of the description and quantity of explosives in his possession and shall comply with any directions which the licensing/permit-issuing authority may give in regard to their disposal.
2. The licensing/permit-issuing authority may grant for a term not exceeding three (3) months from the date of expiration, suspension or revocation, as the case may be, a temporary license/permit for the possession and sale of the explosives actually held at the time of the issue of the temporary license/permit.

76. Appeals

1. An appeals against an order of the licensing/permit-issuing authority refusing to grant or renew a license/permit or suspending or revoking a license/permit or varying the conditions of a license/permit shall lie with Home Ministry, Royal Government of Bhutan and its decision is final an binding.
2. Every appeal shall be preferred in accordance with the provisions of the rules and shall be presented within 30 days of the date of the communication of such order.

77. Procedure on death or disability of licensee/permit-holder

1. If a licensee/permit-holder dies or become insolvent or mentally incapable or otherwise disable, the license/permit granted to him under these rules shall stand cancelled on the date of licensee/permit-holder's death or his mental incapability or his insolvency or disability.
2. The legal heirs or representatives of the licensee/permit-holder referred to in sub-rule (1) shall as soon as may be, notify the licensing/permit-issuing authority.
 - a. The date of death, insolvency, mental incapability or other disability; and
 - b. The stock of all explosives kept at the licensed/permitted premises and shall await the directions of the licensing/permit-issuing authority with regard to the disposal of such explosives.

78. **Loss of license/permit**

Where a license/permit granted under these rules or its authenticated copy is lost or accidentally destroyed, a duplicate may be granted on payment of prescribed fees.

79. **Production of license/permit or pass on demand**

1. Every person holding or acting under a license/permit granted under these rules shall produce the license/permit or its authenticated copy as and when asked to produce at any time and place directed.
2. Person in charge of a consignment of explosives in transit shall produce the pass covering it when called upon to do so.

CHAPTER - 7

Powers of search and seizure

80. **Dangerous practices**

1. If an Inspection Officer were to find in any place where an explosives is possessed or used or sold or transported any practices/matter to be unnecessarily dangerous or defective endangering public safety or the personal safety of any one, then the Inspection Officer by an order in writing can cause the occupier of the premises/area of the explosive to remedy the same within the time stipulated in the order even if the matter were not to be provided for expressly in these rules.
2. Occupier in case objects to the order he can appeal to the Home Ministry within the time stipulated in the order. The decision of the Home Ministry is final.

81. **Communication to Home Ministry**

All information concerning search and seizure should immediately be communicated to DZONGDAG, Ministry of Home Affairs, Royal Government of Bhutan.

82. **Powers to destroy explosives**

If there are reasons to believe the any explosive has been found not fit for storage transport use an fraught with serious danger to public he may destroy the explosive material under question and all the particulars of such action must be expeditiously communicated to the Ministry of Home Affairs.

CHAPTER - 8

Accidents and Enquiries

83. **Information to Royal Bhutan Police (RBP)**

Accidents if any involving the explosives, the licensee/permit-holder concerned shall immediately inform RBP. The place of the accidents shall not be disturbed and tampered until the clearance is given by RBP or any one authorized by him. However the rescue operations to protect life can be carried out. Measure to prevent further damages to the life and property arising out of the accident can be taken. RBP must keep Home Ministry informed.

84. **Ordering of enquiry**

If in the opinion and judgment of Home Ministry the accident amounts to be a major one he can order a special enquiry into the accident, and act on its recommendation in appropriate manner.

85. **Penalty clause**

Any violation of the procedure laid down in the Explosive Rules (1989) shall be liable to punishment as prescribed in THRIMZHUNG, clause NA-1-2, JA-2-1 to 2-24, (excluding clause JA-2-2, 2-3, 2-7 & 2-11).

FORM NO. - 1

Importer's dispatch schedule [see rule 17 (2)]

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 Home Ministry

Name & Address of the importer	Import License No. Granted & date of expiry License	Description of Explosives	Name & Address of manufacturer of Explosives	Name & Address of consignor	Quantity of Explosives Imported	Place from which Explosive were forwarded	Particulars of Dispatch	Date of arrival & Place of Import
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Particulars of dispatch from place of import

Name & address of the licensee to whom explosives were dispatched	License No and form	Quantity of explosives dispatched	Batch No. & date	Date of	Mode of dispatch	Road van dispatch if dispatched by road	Name license no. description	No. of &
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**Signature of Importer
(Authorized agent in case of Company)
Name & full address**

FORM NO. - 2

[See rule 18 (2)]

Pass granted by the holder of transport permit (explosives) for transport of a consignment of explosives.

- 1. No.
- 2. This pass covers packages containing following explosives:

Name & description	Quantity	No. of packages	Batch Number and date
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- (I)
- (ii)
- (iii)
- (iv)
- (v)
- (vi)

While in transit from to

- 3. The explosives are being transported by rail/road Van No..... having permit No. till Lorry No. other non-mechanically propelled vehicle.
- 4. Name and address of consignee.
- 5. No. and Form of consignee's Permit No.
- 6. Consignee's order No. and date and quantity of each explosives ordered.
- 7. Date of despatch of consignment
- 8. Approximate date on which consignment should reach in destination.

Signature

Holder of Transport

(Permit No.

(See Rule 36)

FORM - 3
Form of account to be maintained by permit holder

Note:- This record should be kept up-to-date. Entries should be made daily and as and when explosives are received/sold.

A. Accounts of Receipt and Sale of Explosives

Permit No. in Form of explosives rules.

<u>SL.No.</u>	<u>Particular</u>	<u>Receipt</u>	<u>Sale</u>
1.	Date		
2.	Description of Explosives Name		
3.	Opening balance		
4.	Explosives transacted by permit		
5.	Quantity		
6.	Batch Number		
7.	Name and Address permit No. [(By whom supplied) (To whom sold)]		
8.	Road Van permit No.		
9.	Pass No.		
10.	Closing balance		
11.	Remarks		
12.	Signature of permit holder/person in charge		

B. Particulars of theft and destruction

<u>SL.No.</u>	<u>Particulars</u>	<u>Theft</u>	<u>Destruction</u>
1.	Date		
2.	Name of explosives		
3.	Quantity		
4.	Reason for destruction		
5.	Authority under which destruction was done		
6.	Whether theft/loss reported to Police		
7.	Reference of report		
8.	Remarks		

C. Accounts of Explosives used by permit holder

<u>SL.No.</u>	<u>Particulars</u>
1.	Date
2.	Shot Firer's name and license No.
3.	Description of explosives issued name
4.	Quantity issued
5.	Number of holes fired
6.	Description of explosives used
7.	Quantity used
8.	Description of explosives returned Name
9.	Quantity returned
10.	Sign of short firer of Magazine in charge
11.	Remarks.

See rule (62)

FORM - 4

Guide lines on specific information with application

Ref. to rule No.	Specific information needed
63	Purpose of own use like ground leveling, well-sinking; address of the premises where used, type of authorized explosives and quantity needed.
64	Qualification and experience of applicant and the technical personnel employed by him; address of the place where explosives are to be stored; type and quantity of authorized explosives to be stored at any time; rate of explosives per day; distance between place of storage and usage; mode of transport between them.
65	Explosives to be carried; places between which explosives will ply; description of the vehicle; total maximum load that can carry.
66	Particulars of the place to which explosives will be transported; type and quantity of authorized explosives required to be transported.
67	Authorized explosives to be imported-type and quantity; name and address of the manufacturer and the country of origin.

See rule (63)

FORM - 5

Permit of possess Explosives for own use

Permit is hereby granted valid only for the possession on the premises described below of the following quantities of explosives for own use subject to the provisions of explosives rules to the conditions of this permit.

This permit remains in force till date
Explosives (Nitrate mixture) Kg.
Electric or ordinary detonators Nos.
Safety fuse meters

Note: The quantity permitted shall not exceed 5 Kg.; 100 numbers and 200 meters respectively.

Description of the permitted premises.

The permitted premises are shown on drawing.

(I) No. Dated
(ii) No. Dated
(iii) No. Dated

attached hereto and situated at and consist of

Postal Address of permit holder issuing authority dated space for renewal of endorsement.

Date of renewal authority Date of expiry Signature of Permit issuing authority

Conditions:

1. The explosives shall be kept in a substantial building constructed of non-flammable materials or in fire proof box duly approved by the permit-issuing authority.
2. Place of storage should be separated from any dwelling home or protected works by a minimum distance of 45 meters. It shall also be a secure place to prevent from theft.
3. The interior of the building/box shall be such that it does not cause any gritting matter to from and mixed with explosives.
4. Adequate provision shall be made for the ventilation and the interior of box/building shall be kept scrupulously clean. Water into the storage place must be excluded.
5. Detonators shall not be stored along with other explosives. Detonators, is required shall be stored in a different building a fireproof box located at a minimum distance of 1.5 meters from the building/box where other explosives are stored.
6. The doors of the building/box shall open outwards and shall be kept clearly closed or locked when not in use.
7. All articles or substances of explosives or highly inflammable nature shall be kept at a

safe distance from the explosives and also from the places where explosives are stored. Persons entering the storage places shall not have any iron or steel in his possession or attached to his boots or shoes.

8. No tools, implements, balance, weights etc., made of iron or steel shall be kept on the premises.
9. All explosives exceeding 0.5 Kg. shall be kept in a suitable receptacle and closed.
10. Any accidents and all losses, shortage of stock and thefts of explosives shall be reported without delay to the nearest police and permit-issuing authority.
11. The permit-holder at the time of purchasing explosives have the following particulars endorsed in his permit and signed by the person delivering the explosives.
 - i) Name, address, permit No. of the person delivering explosives.
 - ii) Name, address of the person taking delivery of explosives.
 - iii) Kind and quality of explosives purchased.
 - iv) Date of purchase.
12. Explosives purchased on the strength of this permit shall not be sold or transferred to any other person.
13. Free access to the permitted 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 explosives rules and conditions of this permit are duly observed.
14. The stock of explosives remaining on expiry of the permit shall be intimated to the permit-issuing authority and the permit-holder shall comply with the instructions of such authority regarding disposal of explosives.
15. The permit-holder for the purpose of blasting explosives shall employ a licensed shot firer.

Additional conditions:

See rule (64)

FORM - 6

Permit to possess Explosives for use

No.

Permit is hereby granted to for possession and use of explosives of the quantities specified in additional condition No. subject to the provisions of explosives rules and to the conditions of this permit. The explosives shall be stored at the premises described below:

Description of the permitted premises.

The permitted premises are shown on drawing.

- (I) No. dated
- (ii) No. dated
- (iii) No. dated

attached hereto and situated at and consist of

This permit shall remain in force till

This permit is liable to be suspended or revoked for any violation of the rules framed thereunder or the conditions of this permit or if the permitted premises are not found conforming to the description per attached plans.

Postal address of the permit holder

Date

Issuing Authority

Spaced for renewal of endorsement

Date of renewal authority

Date of expiry

Signature of permit-issuing authority

Conditions:

1. The quantity of explosives on the premises at any one time shall not exceed the permit able capacity.
2. The magazine shall be used only for keeping all explosives specified in additional conditions No. of the permit and of receptacles for, or implements for work connected with the keeping of such explosives.
3. The opening of packages and the weighing & packing of explosives shall not be carried on in the magazine.

4. Two or more descriptions of explosives which may be permitted to be kept in the magazine by additional condition No. shall be kept only if they are separated from each other by a suitable means of effectively preventing explosive or fire in the one communicating with the other.
5. When an explosive owing to its being no longer of standard purity or owing to signs of liquefaction is no longer fit for storage in the magazine the permit holder shall comply, at his own expense, with such directions as to its disposal at the DZONGDAG may issue.
6. The interior of the magazine or store house and the benches, shelves and fittings therein, shall be such that their iron/steel components are not exposed and they do not cause any grit. Such interior, benches, shelves and fittings shall so far as is reasonably practicable, be kept clean and besides explosives getting into contact with water through rain, seepage or any other means free from grit.
7. The lightning conductor has got to be tested and passed by the testing officer as satisfactory.
8. Due provision shall be made, by the use of suitable working clothes without pockets, suitable shoes, and by searching or by some such means to prevent the introduction into the magazine/store house any source of fire/explosion like matches or any substance or article likely to cause explosion or fire, or of any grit, iron or steel. But condition shall not prevent the introduction of an artificial light of such construction, position or character as approved by competent government authority not to cause any danger of fire or explosion.
9. The permit-holder shall keep records and accounts of all explosives in stock and used in Form-3 in his office and produce the stock books and records to any officer authorized 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 permit issuing authority.
11. No changes or alterations shall be carried out to the premises without prior approval of the permit issuing authority and the permit holder shall comply with any condition that may be specified by the permit issuing authority in this behalf.
12. If the permit issuing authority calls upon the holder of the permit 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 holder of permit shall take such action within such period, not being less than one month from the date of receipt of the notice, as may be fixed by the notice.
13. Magazine shall all times be kept in state of good repair (or maintained in good condition). The permit holder shall report to permit issuing authority forthwith if the magazine becomes unfit for storage of any explosive for any reason whatsoever.
14. The permit holder shall submit at the end of every month a return showing receipts in Form-9 to the permit issuing authority in the proforma prescribed from time to time so as to reach the above authorities by 10th day of the succeeding month.
15. Any encroachment of the safety distance shall be immediately communicated to the permit issuing authority for necessary advice and action.
16. The permit issuing authority shall be immediately informed for advice if any explosives is found deteriorated or unserviceable.

17. The explosive packages shall be stacked 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.
18. The resistance of the lightning conductor to earth shall be as low as possible and in no case more than 10 ohms.
19. The distance of 15 meters surrounding the magazine shall be kept clear of dried grass or bush or flammable materials.
20. Every package of explosive at the time of bringing inside the magazine shall be examined for its sound condition.
21. Not more than 4 persons shall be allowed inside the magazine at any one time.
22. Empty packages of the explosives shall be removed at the earliest and destroyed.
23. The explosives shall not be used for blasting purposes unless the permit holder employs a qualified shot-firer holding a shot-firer's permit granted under the explosives rules.
24. The permit holder 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.
25. 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.
26. For charging or stemming a shot hole, no person shall use an iron or steel tools, scraper, or tamping rod or shall forcibly press the explosive into a hole of insufficient size. A tamping rod made entirely of wood shall be used.
27. 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.
28. No person shall re-bore or tamper a hole that has once been charged or attempt to withdraw a charge either before firing or after a misfire or deepen or tamper with empty holes or sockets left after blasting.
29. Before commencing shot firing the permit holder shall give sufficient warning to the public, an sufficient 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.
30. The permit holder shall warn the public not to approach the site of blasting operation at last within an hour after explosion or in the case of an open quarry, not to approach such quarry within half an hour after explosion.
31. 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 firing of shots.
32. In the event of a misfire, if a relieving hole is to be drilled it shall not be placed within 30 cm from the misfired hole. The relieving hole shall run parallel to the misfired hole.

[See rule (65)]

FORM - 7

Permit for road van

No.

Permit is hereby granted to to transport explosives by road van as described below subject to the provisions of the explosives rules, and to the conditions of this permit.

The permit shall remain in force till and is not transferable to any other van.

This permit is liable to be suspended or revoked for any violation of the Rules and framed thereunder or the conditions of this permit or if the van is not found conforming to following description.

Description of road van

Make

Registration No.....

Engine No. Chassis No.

Description of other fittings

Approved drawing No. and date

Quantity of explosives permitted to carry

Postal address of permit holder

Date

Issuing Authority

Space for endorsement of renewals

Date of renewal

**Date of expiry
authority**

**Signature and office stamp of the permit issuing
authority**

Conditions:

1. No alteration should be made to the vehicle, its body and other fittings without approval from the permit issuing authority.
2. The road van shall not be used for transport of explosives unless it is in a fit condition and complies with the explosives.
3. The road van shall not be used for carrying passengers or transport of any material other than that authorized by this permit.
4. No smoking and no fire or artificial light or any article capable of causing fire shall be allowed on the road van.
5. No explosives unless they are packed in accordance with the explosives rules shall be transported in the road van.
6. Detonators shall not be transported with any other explosives.
7. The explosives shall be loaded into the van only at the permitted premises of consignor and unloaded from the van at the permitted premises of the consignee.

8. Other conditions are in rules (18) to (30) and (35).
See rule (66)

FORM - 8

Permit to transport explosives

Permit is hereby granted to to transport following explosives from the premises permitted in form bearing permit No. Situated at to places specified below subject to the provisions of the explosives rules and to the conditions of this permit.

Places of destination

The permit shall remain in force till

This permit is liable to be suspended or revoked on any violation of the Act or rules framed thereunder or the conditions of the permit.

Postal address of the permit holder

Date

Issuing Authority

Space for renewal endorsement

Date of renewal authority

Date of expiry

Signature of permit issuing authority

Conditions:

1. The permit holder shall transport only such explosives as he is authorized to possess under the rules.
2. The quantity of explosives dispatched to any consignee shall not exceed the quantity which such consignee is entitled to possess under a permit granted under these rules.
3. Each consignment of explosives shall be covered by a pass in Form-2 and it shall be attached to the way bill or the invoice as the case may be.
4. A copy of each pass issued for each consignment shall be sent to permit issuing authority, DZONGDAG in whose jurisdiction the premises from which the consignment is sent, is situated.
5. Any loss, shortage or theft of explosives in transit shall be reported without delay to the permit issuing authority and to the police station in whose jurisdiction the loss, shortage or theft is discovered.
6. The explosives shall be packed and marked in accordance with rule 9 of the explosives rules.

[See rule (67)]

FORM - 9

Permit to import explosives (by land)

No.

Permit is hereby granted to to import at any one time explosives of the description given below at the point of for consignment to persons mentioned below subject to the provisions of the explosives rules and the conditions on the back of this permit.

This permit shall remain in force till

This permit is liable to be suspended or revoked for any violation of the rules or the conditions of this permit.

Postal address of permit holder.

The 19.....

Issuing Authority

Description of explosives and consignee

1. Name of explosives Class and Division
2. Weight
3. No. of packages
4. Consignee's name and address to whom explosives will be sent from place of import
5. Permit No. of the magazine of the consignee
6. Remarks

Conditions:

1. No explosives other than those permitted under this permit shall be imported.
2. The quantity of explosives imported shall not exceed that authorized by this permit.
3. All explosives imported under this permit shall be packed and marked in accordance with rule 9 of explosive rules 1988.
4. As soon as the explosive has been cleared from the place and dispatched to the magazine for storage, the license shall complete the importer's transmission schedule in Form-1 and forward it to the
5. The explosives shall be dispatched to the various consignees mentioned in the permit directly from the point of receipt and the permit holder shall make prior arrangements to ensure that there is no hold up of explosives at any place.

(See rule 68)

FORM -10

**Shot-firer's license
Royal Government of Bhutan**

No.

This is to certify that Shri. born on
passed the shot-firer's examination held on passed the
(Name of the examination) examination held in (month and year
of examination) by (authority conducting
examination) and is authorized to conduct blasting operations using explosives subject to the
provisions of explosives rules as amended and the rules framed thereunder.

Issuing Authority

Place :

Date :