



# Petroleum & Explosives Safety Organisation



# Annual Report 2013-14



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Website: <http://peso.gov.in>

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**INTODURCTION**

The Petroleum and Explosives Safety Organisation (PESO), formerly known as Department of Explosives, since its inception on 9/9/1898, has been serving the nation as a nodal agency for regulating safety of hazardous substances such as explosives, compressed gases and petroleum. The organisation has earned rare distinction as an institution of excellence in matters related to safety in manufacturing/refining, storage, transportation, handling and use of hazardous substances for over a century. Apart from the normal functions of enforcement of statutory safety regulations to safeguard public safety, life, property and environment, the organisation has rendered meritorious voluntary services in examination and disposal of explosives, improvised explosives devices till late eighties of the last century, some of which were of national importance encountered during freedom struggle of the country, terrorist activities in different regions in the country. Till early nineties of the last century, the officers of the organisation were carrying out anti-sabotage checks and duties related to VVIP security, Airport Security etc. The organisation has creditably rendered training to Police, Security and Intelligence personnel in detection, examination and disposal of explosives/explosive devices in a safe manner, as there was no other agency in the country to impart such trainings. The activities of the organisation, over the years has increased exponentially and expanded in diverse fields. Today the organisation deals with wide range of subjects related to explosives, petroleum, compressed gases, pressure vessels, gas cylinders, cross-country pipelines, LNG, CNG, Auto LPG etc.

The organisation, although small in size, compared to many other Government organizations with an existing strength of only 94 officers out of sanctioned strength of 137 officers, is the only organisation of its kind directly overseeing the safety requirements for over 2.51 lakhs hazardous units and offering expert technical and safety guidance to numerous industries and user companies, including Ministries of Defence, Railways, Shipping, Surface Transport, Environment & Forests, Civil Aviation and establishments of Atomic Energy and Space Research.

Initially, the activities of the organisation were confined to enforcement of Explosives Act (4 of 1884) involving inspection of explosives storage magazines and investigation of accidents related to storage and transportation of explosives. Subsequently, enforcement of

Petroleum Act (8 of 1899) & Petroleum Rules which came in force on 17.02.1899 and Carbide of Calcium Rules, 1987 framed under the said Act were also entrusted to the organisation. However, owing to different sets of provincial regulations prevailing in different provinces at that time, an impasse was created in effective administration of the Petroleum Act and Rules.

With a view to thrash out the impasse and bring uniformity in the system, the Chief Inspector of Explosives started an endeavour to frame a set of rules for all states allowing variations essential for local conditions. Finally, the Petroleum Act, 1934 was promulgated in supersession of all earlier Regulations and the Petroleum Rules, 1937 came into force with effect from 30.03.1937 replacing the earlier Central and Provincial Rules. The consolidated Carbide of Calcium Rules came into force with effect from 18.02.1987. After independence, though hazardous but useful materials like explosives, petroleum etc. found place in the Union List of the Constitution of India. Subsequently, the Petroleum Rules, 1937 were overhauled comprehensively and replaced by Petroleum Rules, 1976. The Petroleum Rules, 1976 were further reviewed and overhauled in view of changed scenario and also report of the Rajya Sabha Committee for Sub-ordinate Legislation and new rules Petroleum Rules, 2002 were brought into force with effect from 13/03/2002. Later on two amendmenst have been done on 02/02/2007 and 15/06/2011.

During the course of time, similarly there were several revisions and amendments in the Explosives Act and Rules. The earlier Explosives Rules, 1918 were replaced by Explosives Rules, 1940, which were again overhauled and replaced by the Explosives Rules, 1983, which have been again thoroughly reviewed and present Explosives Rules, 2008 have been brought in force since 29/12/2008. In order to control the misuse of Ammonium Nitrate and regulate its production & use in explosives manufacturing industries and in mining industry the Ammonium Nitrate Rules were framed under the Explosives Act, 1884 and came into force on 11/07/2012.

Inflammable Substance Act, 1952 came into force from 1952. The Gas Cylinder Rules which were originally framed in the year 1940 were replaced by new comprehensive Gas Cylinder Rules, 1981. These rules were again reviewed due to liberalized policy of Government of India and were simplified and replaced by new Gas Cylinder Rules, 2004 with effect from 21/08/2004.

The Static and Mobile Pressure Vessels (Unfired) Rules, 1981 were for the first time brought in force in the country to cover safety in storage and transportation of bulk compressed gases in unfired pressure vessels. These rules have been appropriately amended from time to time to cover new fields like cryogenic liquids, Auto LPG Dispensing Stations etc.

Due to the complexity of functions and increased responsibility in implementing safety regulations over the entire length and breadth of the country, the organisation has modernized its working procedures making use of latest tools of information technology. Consequently, all the offices of the organisation have been networked through the central server installed at Nagpur, the data base of the organisation has been digitized and access to the data has been made available to the public through inter net. The members of the public can now have access to the status of their applications by visiting the organisation's website ([peso.gov.in](http://peso.gov.in)). In order to provide hassle free services to the existing licence holders and new applicants the organisation has provided public portal to the public for submission of various applications on line under Petroleum Rules, 2002. The similar facilities under other rules implemented by the organisation and on line remittance of various fees under different rules are in advance stage and will be available to the public very shortly. The aim of the organisation is to take benefit of modern work procedures, technology and upgraded manpower quality by imparting continuous training to officers and staff for turning itself into an Institute of Excellence. The reputation earned by this organisation over the century is reflected by confidence shown by all related industries, various government departments/organisations and autonomous bodies in seeking advice and guidance in the matters relating to handling of hazardous substances.

Aided by its most efficient technical work force, congenial working conditions, proactive approach, up-gradation of knowledge base, deployment of IT techniques and over all traditional dedication towards safety, the organisation is now poised to scale new heights of excellence in the years to come.

**T.R. THOMAS**  
Chief Controller of Explosives

## **BASIC ROLE AND FUNCTIONS OF THE ORGANIZATION**

With an overall objective to ensure safety and security of public and property from fire and explosion, the organization as a statutory authority is entrusted with the responsibilities under Explosives Act, 1884; Petroleum Act, 1934; Inflammable Substances Act, 1952 and the following rules framed under these Acts;

### **EXPLOSIVES ACT, 1884:**

1. Explosives Rules, 2008
2. Ammonium Nitrate Rules, 2012
3. Gas Cylinder Rules, 2004
4. Static & Mobile Pressure Vessels (Unfired) Rules, 1981
5. Notification No. GSR 625(E) dated 07.08.1983 regarding Acetylene Generator
6. Colour matches notification-----

### **PETROLEUM ACT, 1934:**

1. Petroleum Rules, 2002
2. Calcium Carbide Rules, 1987
3. Cinematography Film Rules, 1948 (These rules have become obsolete and are to be repealed)

The organisation is basically entrusted with two types of major roles viz. Statutory Role and Advisory Role. The activities of the organization in brief under the said roles are described below: -

#### **2.1 STATUTORY ROLE**

The Statutory role of the organisation under different Acts and Rules is as follows:

##### **2.1.1: EXPLOSIVES RULES, 2008:**

The major work under Explosives Rules, 2008 relates to approval of site layout & premises construction plans, grant of licences for manufacture, storage, transport and import/export of explosives. Apart from this authorization of explosives, approval for packages for packing of explosives, prescribing safe procedures and methods for manufacture of various types of explosives including the tools, equipments and machineries etc. are other activities of

the organisation under Explosives Rules. The organization carries out investigation of accidents involving explosives and also undertakes destruction of unserviceable/seized explosives in the interest of public safety and security.

The organization carries out inspection and safety audit of the new premises for verification/endorsement of the premises after grant of licenses/approvals and also conducts periodic inspections of the licensed/approved premises.

### **2.1.2: AMMONIUM NITRATE RULES, 2012:**

The Central Government specified “Ammonium Nitrate or a combination” as special category explosive substances under Explosives Substance Act, 1908 on 10th December, 2008 under vide notification number S.O.2899 (E). Further, Central Government vide notification number S.O.1678 (E) dated 21<sup>st</sup> July 2011 declared Ammonium Nitrate having the chemical formula  $\text{NH}_4\text{NO}_3$  or any combination containing more than 45% of Ammonium Nitrate by weight including emulsions, suspension, melts or gels (with or without inorganic nitrates) shall be deemed to be an explosives within the meaning of Explosives Act, 1884 .

In order to control over manufacture, conversion, stevedoring and bagging, import, export, transport, possession for sale or use of Ammonium Nitrate Central Government vide notification No G.S.R.553(E) dated 11th July 2012 published Ammonium Nitrate Rules, 2012 framed under Explosives Act, 1884.

The major work under Ammonium Nitrate Rules, 2012 relates to approval of site layout, premises construction plans, grant of licences for manufacture, possession for sale or use of Ammonium Nitrate or conversion of melt to solid and vice-versa, Stevedoring & bagging, storage of Ammonium Nitrate, transport of Ammonium Nitrate and licence for Import and Export of Ammonium Nitrate

The organization carries out investigation of accidents involving ammonium nitrate and also undertakes destruction of unserviceable/seized ammonium nitrate in the interest of public safety and security.

### **2.1.3: GAS CYLINDER RULES, 2004:**

The Gas Cylinders Rules were first published in 1940 after Govt. of India Notification No. M-1272 (1), dated 28<sup>th</sup> September 1938 declaring ‘any gas when contained in any metal



container in a compressed or liquefied state' to be an explosive within the meaning of Explosives Act, 1884. The above rules were later replaced by the Gas Cylinders Rules, 1981, after a comprehensive review in the light of the development of the gas industry after independence. The last two decades of the 20<sup>th</sup>, century witnessed massive expansion in the gas and related industries triggered by economical liberalization and globalization, use of LPG as industrial and domestic fuel, introduction of CNG and LPG as environment friendly automotive fuels, entry of new technologies, etc. necessiated another round of review and brought out the new Gas Cylinders Rules, 2004.

The major activities covered under these rules include grant of approval for cylinders, valves & LPG regulators manufacturing units etc, as well as approval of designs of these equipments. Grant of licences for gas cylinder filling plants, CNG fueling stations, filled cylinder storage premises and import of cylinders/valves are other important activities under the rules. Apart from this grant of permission for filling of cylinders, recognition of cylinder testing stations etc are activities imparted by the organisation. This organization also plays a crucial role in the formulation of standards for cylinders, valves, regulators, etc. The organization regularly undertakes safety audits of gas cylinder filling plants; CNG fueling stations, cylinder, valve and regulator manufacturing units, etc. approved/licensed premises under the aforesaid rules to ensure the compliance of the rules and also to inculcate safety awareness.

Salient features of Gas Cylinders Rules, 2004 with respect to deregulation and simplification of rules-

- a) Enhancement of the scope of the Gas Cylinders Rules to cover special containers up to 2500 liters water capacity and composite cylinders made of non-metallic materials.
- b) Enhancement of the exemption limit of possession of gas filled cylinders without licence and periods for which a licence can be granted and renewed.
- c) Doing away the requirement of prior approval of specification and plans for setting up of cylinder filling plants, conversion of cylinders from one gas service to another & filling of cylinders between the hours of sunset to sunrise in respect of non-toxic non-flammable gases.
- d) Simplification of the procedure for transfer of a licence in case of change of ownership or death of the licensee.



#### **2.1.4: STATIC & MOBILE PRESSURE VESSELS (UNFIRED) RULES, 1981:**

The functions of the organization relating to administration of these rules covers grant of approval for pressure vessels/safety fittings fabrication shops and their designs, licenses for storage of compressed gas installations and for transport of compressed gas in vessels by road, permission for import of vessels, grant of recognition of inspecting agencies/competent persons to carry out inspection and certification during manufacture/repair of vessels and final testing as well as periodic testing thereof.

The organization carries out inspection and safety audit of the new premises for verification/endorsement at the time of grant of licenses/approvals and also periodic inspections. The above functions also include review of safety audit, periodic tests reports and performance of vessel fabricators and certifying agencies.

#### **2.1.5: NOTIFICATION NO. GSR.625 (E) DATED 07/08/1983 REGARDING ACETYLENE GENERATOR:**

Acetylene when liquid or subjected to pressure or in admixture with air or oxygen is highly explosives. The generation of acetylene and approval of acetylene generators is governed under this notification. The organization gives approval for type of acetylene generators and acetylene plants. Trial runs of the generator both at the manufacturer's place and at the factory where the generator is installed for evaluating its performance as well as determining efficiency of each generator at the time of endorsement of licenses is done by the organization besides routine inspections of acetylene cylinder filling plants in operation.

#### **2.1.6: PETROLEUM RULES, 2002:**

Petroleum has been defined under the Act and Rules as liquid hydrocarbon or a mixture of liquid hydrocarbons and any inflammable mixture containing liquid hydrocarbons. The work relating to administration of these rules covers approval of Refineries, Petrochemicals/Oil & Gas Processing Plants, transport of petroleum by land and pipeline, Flameproof and other suitably protected electrical apparatus and other safety equipments for use in areas laden with flammable gases and vapours, licensing of petroleum dispensing/service station, petroleum storage installations, tank trucks for transportation of petroleum by road, aircraft/heavy machinery refueller and also issuance of Certificate of Gas Free in respect of Vessels/Ships carrying petroleum for dock entry, man entry and hot work.

The organization carries out safety audits of these premises to ensure compliance of rules and safety measures.

### **2.1.7: CALCIUM CARBIDE RULES, 1987:**

Calcium Carbide has been declared as inflammable substance under the Inflammable Substances Act and the safety provisions of Petroleum Act has been made applicable to it. Calcium Carbide in contact with moisture generates acetylene gas, which has wider range of explosives limits. Approval of receptacles for packing Calcium Carbide and issue of licences for storage of calcium carbide either for sale or for generation of acetylene are the functions entrusted to the organization under these rules.

### **2.1.8: CINEMATOGRAPHY FILM RULES, 1948:**

Storage and transport of Cinematographic Films having Nitrocellulose base, pose potential mass fire hazard. The storage and transport of such films are governed under these rules and issue of licences for storage of films is entrusted to the organization under these rules. The Nitrocellulose based films now have been replaced by safety films (Polyester Based). These rules have therefore become redundant and recommended for repeal.

### **2.2 ADVISORY ROLE:**

With the expertise in specialized technical and safety aspects to prevent fire and explosions of explosives, petroleum, carbide of calcium, gas cylinders, pressure vessels and other hazardous substances, the organization renders advice whenever requested, not only to the industry but also to the government and other bodies like Ports, Railways, Defence Establishments, and Ministries of Surface Transport, Environment & Forests, Petroleum & Natural Gas, Pollution Control Authorities etc. The organization plays important role in formulation of related BIS standards, Port by-laws, Indian Red Tariff and Regulations pertaining to transportation of hazardous goods by rail, road, sea and air.

The Chief Controller of Explosives is the member of the Central Crisis Group constituted by the Ministry of Environment & Forests and other officers also represent at State level and District level Crisis Management Groups.

**ACTIVITIES OF THE ORGANIZATION IN BRIEF**

**3.1:** Scrutiny and appraisal of site, layout and construction plans for;

- Explosives manufacturing factories
- Explosives storage premises
- Ammonium nitrate premises
- Fireworks manufacturing factories
- Fireworks magazines/store houses and shops
- Manufacture of explosives at site in Bulk Mixing and Delivery [BMD] Vehicles.
- Gas Cylinder filling plants
- CNG Dispensing stations
- Storage sheds for filled gas cylinders
- Bulk Storage installations for compressed gases in pressure vessels
- Auto LPG dispensing stations
- Petroleum storage installations
- Petroleum storage sheds
- Petroleum tank trucks for transportation of petroleum
- Petroleum cross-country pipelines for transportation of petroleum and gas
- Petroleum Service Stations.
- Calcium Carbide storage premises.

**3.2:** Scrutiny and appraisal of proposals for approval of design and construction of explosives vans, Bulk Mixing and Delivery vehicles (BMD) for site manufacture of explosives, vehicles for transport of bulk compressed gases/cryogenic liquids in pressure vessels, petroleum containers and tank trucks including its safety fittings.

**3.3:** Licensing of the premises/units/vehicles referred to under 3.1 & 3.2 above.

**3.4:** Scrutiny and appraisal of layout etc. of Petroleum Refineries, Petrochemical units, Calcium Carbide premises and Acetylene Gas generating plants for grant of approval thereof.

**3.5:** Scrutiny and appraisal of proposals of design, construction, laying and operation of pipeline for transport of liquid hydrocarbons as well as other flammable gases/hazardous chemicals grant of approval thereof.

- 3.6:** Scrutiny and appraisal of proposals of designs of pressure vessels and their fittings both manufactured in India and imported for grant of approval thereof.
- 3.7:** Scrutiny and appraisal of proposals of design of Gas Cylinders and valves fitted there to manufactured in India and imported for grant of approval thereof including LPG cylinder Regulator.
- 3.8:** Scrutiny and appraisal of proposals of flameproof, intrinsically safe and special electrical equipments suitable for use in hazardous areas laden with flammable gases/vapors, both manufactured indigenously and also imported for grant of approval thereof.
- 3.9:** Scrutiny and appraisal of proposals of factories fabricating pressure vessels and its fittings for grant of approval thereof.
- 3.10:** Scrutiny and appraisal of proposals of testing stations for periodic examination and testing of cylinders for grant of recognition to the cylinder testing station.
- 3.11:** Recognition of competent persons and inspectors under various Rules.
- 3.12:** Issue of shot firer's permit & foreman's certificate.
- 3.13:** Regular safety audit of the units mentioned above.
- 3.14:** Destruction of deteriorated and unclaimed/unserviceable/seized explosives.
- 3.15:** Examination of petroleum tanks in sea going vessels/ships for issuing gas free certificates for allowing hot work, entry of man in such tanks and entry of such vessels in docks.
- 3.16:** Technical investigation of accidents related to the substances coming under the purview of the Acts and Rules administered by the organization for ascertaining causes of accident and violations.
- 3.17:** Scrutiny and appraisal of proposals to import, export and transport explosives for grant of licence thereof.
- 3.18:** Authorization of new explosives after mandatory tests and trials.
- 3.19:** Grant of permission for filling/use of gas cylinders imported from abroad and manufactured in India.
- 3.20:** Grant of licence/permit for import of cylinders & pressure vessels.
- 3.21:** Scrutiny of periodic returns under various Rules.
- 3.22:** Review & amendment of rules and grant of exemption/relaxation wherever necessary in Public interest.
- 3.23:** Advising on request to Port, Airport and Railway/authorities on –

- Classification of hazardous substances;
- Packing and determination of conditions for storage/transport of dangerous substances;
- Siting and layout of facilities for the loading/unloading and transit storage of explosives, flammable and other dangerous substances.

**3.24:** Examination/testing of explosives/hazardous substances for classification of hazard.

**3.25:** Advising the Central and State Governments, the Industry and various organizations on matters relating to the handling of explosives, flammable and other dangerous substances, and the requirements of the Acts and Rules referred to above whenever asked.

**3.26:** Participation as Chairman or member in various committees appointed by the Ministry of Defence, Bureau of Indian Standards and other Ministries and Departments.

**3.27:** Participation in symposiums, seminars, workshops organized by various organizations relating to safety in handling of hazardous chemicals, petroleum products, explosives and compressed gases.

## **ADMINISTRATION, BUDGET AND INFRASTRUCTURE**

### **4.1: STRENGTH AND INFRASTRUCTURE:**

The sanctioned strength of the organization at present is **137 Group 'A' officers and 343 Group 'B', 'C' and 'D' officials**. Out of the above, **42** posts of Group 'A' and **61** Group 'B', 'C' & 'D' officials are lying vacant due to various administrative procedures and reasons. The Petroleum and Explosives Safety Organization (PESO) is **headed by the Chief Controller of Explosives** with its **headquarter at Nagpur** and there are **5 circle offices** located at **Mumbai, Chennai, Kolkata, Faridabad and Agra** each is headed by the Jt. Chief Controller of Explosives. The organization has 13 Sub-Circle Offices under various Circle Offices and are headed by the Dy. Chief Controller of Explosives and **5 sub-circle offices** under various Circle Offices and are headed by the Controller of Explosives. The Departmental Testing Station (DTS) situated at Gondkhairi, Nagpur is headed by Dy. Chief Controller of Explosives and Fireworks Research and Development Centre (FRDC) situated at Sivakasi is headed by Controller of Explosives. The organizational set up and jurisdiction of various circle and sub circle offices is summarized in annexure-I and II respectively.

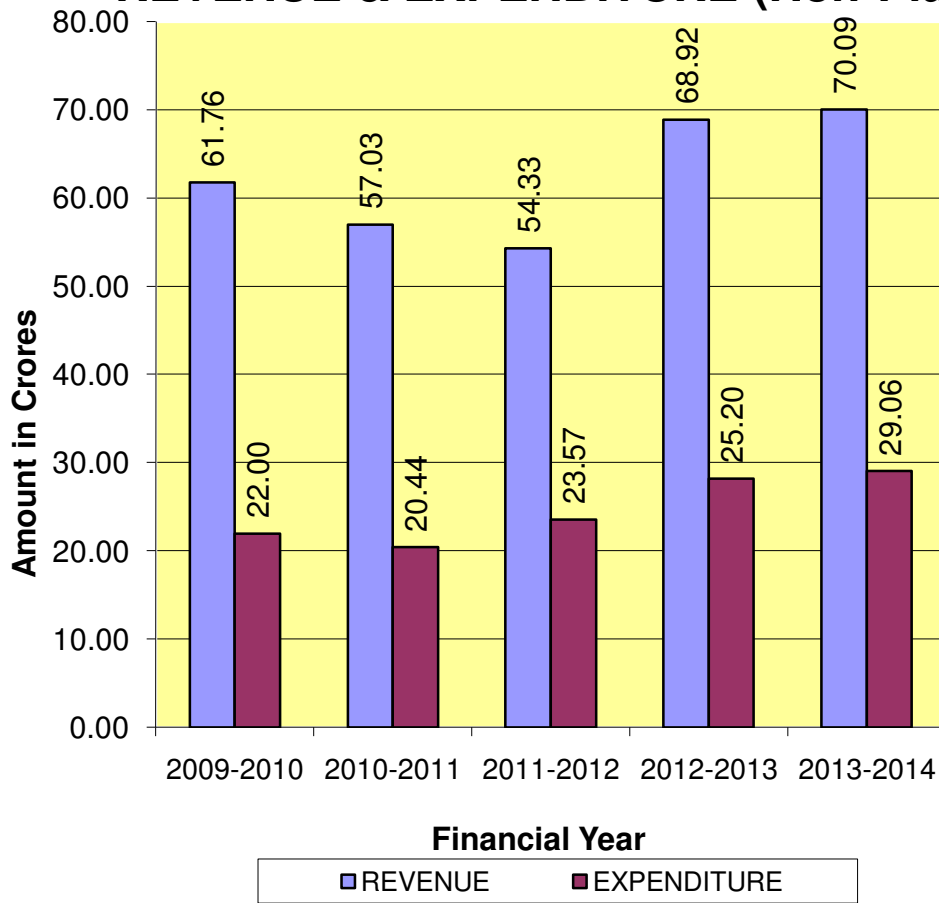
### **4.2: BUDGET & EXPENDITURE:**

During the year 2013-14, budget granted for organization under non-plan was Rs. 29, 06, 84,000/- and under plan it was Rs.2, 10, 00,000/-. During the year, the expenditure under non-plan budget was Rs.27, 66, 43,858/- and under plan budget it was Rs.2, 09, 81,455/- .

### **4.3: REVENUE:**

During the year 2013-14, the organization earned revenue of Rs.72,09,84,541/- on account of fees for the services rendered under various acts and rules which includes Rs. 39,01,35,925/- under Explosives Act and Rs.33,08,48,616/- under Petroleum Act.

## REVENUE & EXPENDITURE (Non-Plan)





**DEPARTMENTAL TESTING STATION (DTS) &  
FIREWORKS RESEARCH AND DEVELOPMENT CENTRE(FRDC)**

**5.1 DEPARTMENTAL TESTING STATION (DTS)**

**5.1.1 INTRODUCTION**

The Departmental Testing Station is situated at 18 KM Stone, Nagpur – Amravati Road, N.H. No. 6, Village Gondkhairy, District Nagpur and is spread over 81 acres of land. The Testing Station functions under the overall guidance and control of Chief Controller of Explosives, Nagpur.

The basic aim behind development of organization’s own Testing Station is to carry out necessary statutory tests to assist Chief Controller of Explosives in administration of Explosives Act, 1884 & Petroleum Act, 1934 and rules framed there under. The Testing Station also renders services of quality control & other tests for different materials and equipments to the user industries especially manufacturers of explosives, which also includes UN Classification Tests which is first of its kind in India for facilitating export of explosives and its accessories.

**5.1.2: FUNCTIONS OF DTS:**

DTS renders the following services for safe manufacturing/quality control of different material and equipments under different acts and rules:

**A. STATUTORY TESTS:**

<b>Sl. No.</b>	<b>Rules</b>	<b>Purpose of Test</b>
1.	Explosives Rules, 2008	a) Authorization of new compositions and specification of explosives. b) Subsequent annual test for deciding about deletion or otherwise from list of authorized explosives. c) Approval of Packages of explosives.
2.	Petroleum Rules, 2002	a) Approval of design of safety fittings of tank trucks. b) Subsequent test for deciding revalidation of manufacturing approval. c) Approval of metal container for petroleum.
3.	Gas Cylinder Rules, 2004	Statutory test facilities available for LPG and compressed gas cylinder testing as per relevant BIS Standards.
4.	SMPV (U) Rules, 1981	Testing facilities are under development.

## B. QUALITY CONTROL TESTS

The Testing Station also renders testing services for quality control in the field of products covered under Acts / Rules administered by the organization.

## C. UN CLASSIFICATION TESTS (Opens New Frontier for export of explosives)

Departmental Testing Station has commissioned the facilities for UN Classification Tests for rendering services to the Explosives Industries to facilitate export of their products at competitive price in international market by way of classifying the explosive product with specially designed packaging as per UN Regulations for transport of dangerous goods.

Products with specially designed packaging are classified to 1.4 with compatibility group B or S, after assessment on evaluating the test results. Director General of Shipping is the competent authority to issue the certificate based on test report and assessment made by Departmental Testing Station. Exporters can ship their products in general cargo ships with 1.4 classification certificate thus saving huge freight than otherwise in explosives cargo ship. Also exporters avail the easy availabilities of these ships which helps them to deliver the consignment in time as availability of explosives cargo ships is limited which delays the shipments.

## D. TESTING OF SAMPLES:

During the year 2013-14, the following nos. of different samples were tested at Departmental Testing Station.

<b>S No.</b>	<b>DESCRIPTION</b>	<b>QUANTITY (Nos.)</b>
<b>1.</b>	<b>EXPLOSIVES</b>	
	Slurry/Emulsion Class-2	218
	Pentolite Booster Class-3 Div.2	26
	Fireworks	291
	Safety Fuse	6
	Gun Powder	3
	Detonators	249
	Detonating Fuse	47
<b>2.</b>	<b>CFB Packages of Explosives</b>	
	Samples for new approval propose	22
	Samples drawn by Circle/Sub- Circle officers	178
<b>3</b>	<b>Petroleum tank truck safety fittings</b>	55

## E. DESTRUCTION OF EXPLOSIVES: SAMPLE REMNANT DESTROYED.

Class-1	--
Class-2	<b>3213.485 Kgs</b>
Class-3 Div.2	<b>22.75 Kgs.</b>
Class-6 Div.1	--
Class-6 Div.2	<b>1321 Mtr.</b>
Class-6 Div.3	--
Class-7 Div.2	--

**E. DESTRUCTION OF UNSERVICEABLE EXPLOSIVES:**

Class-1	--
Class-2	<b>2174 Kgs</b>
Class-3 Div.2	--
Class-6 Div.1	<b>42 Mtr.</b>
Class-6 Div.2	<b>274434 Mtr.</b>
Class-6 Div.3	<b>1128532 Nos.</b>
Class-7 Div.2	----

**G. REVENUE:**

During the year 2013-14, Departmental Testing Station has earned revenue of Rs. **80, 13,520/-**

## **FIREWORKS RESEARCH & DEVELOPMENT CENTER (FRDC) AT SIVAKASI (TN)**

### **5.2 FIREWORKS RESEARCH & DEVELOPMENT CENTER (FRDC)**

#### **5.2.1 INTRODUCTION**

In compliance to the Hon'ble Supreme Court's directions in its judgment; dated 18.7.2005 in the case of W.P. (Civil No.72 of 1998); PESO had initiated the process in time, on setting up Fireworks Research & Development Center (FRDC) at Sivakasi in the state of Tamil Nadu under Plan schemes.

Creation of civil structure of FRDC was taken up under 10<sup>th</sup> plan and completed in all respects. The work executed includes purchase of 2.025 Hectares of land, providing compound wall, bore well, water pipelines, light posts, internal roads, construction of main building housing laboratories & allied facilities, etc. Equipping of FRDC and creation of technical and non-technical manpower are proposed under 11<sup>th</sup> Plan, to make FRDC fully operational.

In pursuant to the directives of the Hon'ble Supreme Court, the various parallel measures taken by PESO and their outcome are as under:

PESO had classified the fireworks into sound emitting crackers and color/ light emitting crackers and revised the authorized list of fireworks items, in compliance to the directives of Apex Court. The same has been published by Department of Industrial Policy and Promotion (DIPP) Ministry of Commerce & Industry, New Delhi; Vide GSR No. 225 dated 06/09/2006 in the Gazette of India, Part-II, Section 3, Sub-section (i). PESO has developed compositions for sound producing firecrackers to be within the limits prescribed by environment norms; with the technical assistance of MEPCO Schlenk Engineering College, Sivakasi (TN). This chemical formulae specify the proportion/composition as well as maximum permissible weight of every chemical used in manufacture of four commonly used sound producing firecrackers viz., (a) Atom Bomb, (b) Chinese Crackers, (c) Maroons & (d) Garland crackers with specific reference to its shape, size, dimensions and confinement, so as to satisfy the requirements laid down under Govt. of India Notification No. GSR 682(E) dated 05/10/99.

The formulae have been given to all fireworks manufactures in India for strict compliance. The same has also been made available in PESO's Website: <http://peso.gov.in> for information of all concerned as well to the public.

### **5.2.2: FUNCTIONS OF FRDC**

**The FRDC is entrusted with the following activities:**

1. Reasearch & Development of eco friendly fireworks.
2. Testing of raw materials used in the manufacturing of fireworks.
3. Mechanisation of hazardous process in fireworks industry.
4. Testing of general performance and sound level of fireworks.
5. Rendering guidance for development of new products and standardization of general products.
6. Improvement of quality control and quality assurance.
7. Imparting training to supervisors and workers of fireworks factories.
8. Investigation of accidents.

### **5.2.3: TESTING OF SAMPLES & REVENUE GENERATION**

The number of samples of fireworks tested during the year the last five years are as follows;

<b>Sr.No.</b>	<b>Year</b>	<b>No. of Samples collected</b>	<b>Revenue Received (In rupees)</b>
1	2009-2010	1203	4, 50,750.00
2	2010-2011	3418	80, 1050.00
3	2011-2012	674	1, 02,600.00
4	2012-2013	831	3, 40,000.00
5	2013-2014	1701	3, 40,200.00

**e-GOVERNANCE**

Petroleum and Explosives Safety Organisation (PESO) has crossed another mile stone in the field of e-Governance and in implementation of e-Governance with a motto to provide better and uninterrupted e-services to its stakeholders falling within the ambit of various rules administered by PESO.

During the financial year 2013-2014, PESO has achieved number of milestones, some of them are as follows;

1. PESO has provided upgraded public portal to stakeholders to file e-applications under Petroleum Rules, 2002 for various activities under the said rules. The facilities have been provided to licensees to register with PESO portal and maintain their License-Portfolios. This system also provides them a facility to send their application online to various offices of PESO across India. Hassle free access has been provided to public to get the current status of their application submitted on line. Further, the licensee can also monitor the status of his application through his portfolio in addition to email they receive on certain stages of processing of applications. It is pertinent to mention here that the organization is getting overwhelming response from the stakeholders/new applicants. New value addition features like 'Bulk-Renewal' has been provided for the benefit of licensees from PSU Oil companies, to submit fee in the form of a single demand draft against number of licenses at the time of renewal.
2. Most of the application modules have also been completely revamped with additional features for easy and hassle free access of on line information about the organization and various activities under different rules administered by the organization.
3. In order to cope up with present demand of e-payment of various fees by the stakeholders/new applicants under different rules the organization is working hard to provide such on line facilities. Delibrations have been held with specified bank for the provision of Gateway for e-payments. Very shortly the organization will be in a position to provide this facility to the public.
4. In order to control the misuse of explosives the organization in association with National Informatic Centre (NIC) is continuously working towards the real time online tracking and tracing system of explosives from their origin to end user. The organization has succeeded upto certain extent in this field.

5. The modules for online submission of different returns under Ammonium Nitrate Rules, 2012 has been prepared and is at the stage of testing. It is expected that the said module will be launched very shortly.

Following are other activities of the organization which have been implemented under e-Governance and organization is continuously getting overwhelming response.

1. Under Explosives Rules, the existing ERS (Explosives Returns System) has been enhanced to compulsorily generate RE-11 (indent) on the part of purchaser. This indent generation is happening within the framework of Explosives Rules and does not allow the purchaser to raise indent more than his license capacity. Similarly, other constraints incorporated in the system are helping both purchaser and supplier in the supply chain transactions.
2. Facility for the supplier to see all RE-11 (indents raised for his company/firm) and prepare RE-12 (based on the RE-11 which is received electronically by him). Preparation of RE-12 also goes through the checks and balances provided in the system to adhere to various rules framed in Explosives Rules, 2008.
3. On actual receipt of explosives, the consignee accepts the explosives online in the ERS. Thus features like knowing the real-time stock, have further enhanced the ERS (Explosives Returns Systems) and streamlined the transaction of explosives to a great extent.
4. Introduction of pass for use (RE-13) is another initiative launched for users of explosives in mines and other sites to streamline the usage and maintenance of records and thus preparation of RE-7 i.e. Explosives Return. This new initiative will greatly help to curb the misuse and mis-appropriation of explosives and will also bring accountability. Sites of use of explosives with names of blasters will also be captured in the database.
5. For Penal transactions under Explosives Rules i.e. suspension & cancellation, email facility has been integrated with the internal application. The system sends email to concerned DM and SP (if their email address is available in the system) in case the license is suspended or cancelled under their jurisdiction.



6. Under SMPV (U) and Petroleum Rules, an initiative for competent persons has also been launched. The existing competent persons are getting registered online and submit all the requisite documents. Their credentials are validated by the internal system and only after that they are able to generate the 'competent third party' certificates for licensed premises through this system.

This initiative has streamlined the generation of certificates by competent persons to a great extent. The generated certificates also gets linked to respective license file at the time of processing of applications. During processing, PESO officers can view certificates issued by the competent person online and can also verify his signature with the online record. This facility has totally eliminated scope of forgery in the certification process.

### **Accomplished Activities:**

All the PESO offices have been brought under Explonet Network upgraded leased line speed up to 2 Mbps for five circle offices with fall back arrangement has been provided. Similarly for 18 Sub-Circle offices, the leased line speed has been enhanced to 512 Kbps.

DTS, Gondkhairy, Nagpur and FRDC Sivakasi have also been provided with 512 Kbps leased line connectivity.

All explosives manufacturers are submitting their daily manufacturing details on day to day basis online. There is an achievement of 100% in respect of submission of RE-7 online by all manufacturers.

Over 95% of licensees of LE-3 (possession for sale and use of explosives) have registered for submission of RE-7 (return of explosives) online and submitting their quarterly explosives returns i.e. RE-7 using the PESO's online system.

Online issue of show cause notices to licensees who have not registered so far or even after registration not submitting RE-7 online is used by all internal users (PESO officers).

In order to further strengthen the process of monitoring the transactions of explosives, the PESO started online generation of RE-12 (for sale & transport of explosive) facility for all manufacturers and dealers. All manufacturers and most of dealers are generating RE-12 online. This has facilitated them in preparation of their RE-7 (quarterly returns) with respect to sale entries.

To facilitate better response to internal offices and also to accommodate RE-7 data being received in bulk through online facility, internal storage has been enhanced to 2 Tera byte. New RACK servers with SAN storage have been put into use for better functioning of the existing software.

Upgrading of existing Internet gateway from 4 Mbps shared to 10 Mbps dedicated throughout for effective implementation of online submission of Form RE-7 and Form RE-12 has been planned in immediate future.

PESO has upgraded the central server and server facilities have been shifted to a dedicated building equipped with all required facilities for uninterrupted high speed network and data storage.

Video Conferencing systems have been installed and put into use for five Circle offices and Head Office at Nagpur.

**MEETINGS, SEMINARS, LECTURES, TRAINING PROGRAMMES OF  
THE CHIEF CONTROLLER OF EXPLOSIVES**

**MEETINGS**

1. On 4.4.2014, Chief Controller of Explosives attended meeting with Jt. Secretary on the NISG project and user fee of explosives.
2. On 31.5.2013, Chief Controller of Explosives attended meeting with SIPP on matters regarding implementation of Ammonium Nitrate Rules.
3. On 24.6.2013, Chief Controller of Explosives attended meeting called by Jt. Secretary (Ports) Ministry of Shipping, Ports Wing regarding Notification of Ports for Import and Export of Ammonium Nitrate.
4. On 2.7.2013, Chief Controller of Explosives attended meeting under the Chairmanship of Additional Secretary (INM) Ministry of Agriculture, Department of Agriculture & Cooperation, New-Delhi regarding inclusion of CAN LITE (15%) in the Fertilizer Control Order 1985.
5. On 22.7.2013, Chief Controller of Explosives attended meeting of Rajbhasha Salahakar Samiti chaired by Minister of State of Commerce & Industry, New-Delhi.
6. On 23.8.2013, Chief Controller of Explosives attended meeting called by JS, DIPP on revision of fee.
7. On 20.9.2013, Chief Controller of Explosives chaired the BIS Committee CHD-26 on Explosives, Fireworks and Chemicals standards at BIS HQ, New-Delhi.
8. On 4.10.2013, Chief Controller of Explosives attended meeting under the Chairmanship of Secretary (IPP) to discuss issues regarding “Explosives Tracking & Monitoring System.” And attended Petroleum Safety Council Meeting chaired by Secretary, MOPNG.
9. On 10.10.2013, Chief Controller of Explosives attended meeting called by SIPP, New-Delhi regarding tracking and tracing of explosives.
10. On 18.10.2013, Chief Controller of Explosives attended meeting called for by M.O.S. at Madurai regarding the Seminar to be conducted at Sivakasi and review of FRDC activities.
11. On 27.10.2013, Chief Controller of Explosives had meeting with Fireworks Manufacturers as directed by MoS to resolve issues related to licensing and Court cases.
12. Chief Controller of Explosives attended a meeting called by the Secretary (IPP) regarding the petition filed before the Hon’ble National Green Tribunal, South Zone, Chennai.
13. On 12.11.2013, Chief Controller of Explosives attended DPC meeting for the promotion to the post of Jt. Chief Controller of Explosives.
14. On 9.12.2013, Chief Controller of Explosives attended meeting with the Executive Directors of the Oil Companies to discuss the matters regarding implementation of the internal excess flow valves for LPG road tankers and related issues.
15. On 11.12.2013, Chief Controller of Explosives attended the Executive Committee Meeting of LPG Equipment Research Centre, Bangalore.

16. On 19.12.2013, Chief Controller of Explosives attended meeting called by JS(AC) for discussing detailed analysis of disposal of applications of AN and revised road map for fireworks industry and Operationalization plan for FRDC.
17. On 3.1.2014, Chief Controller of Explosives attended meeting called by Secretary, MOPNG to discuss the issues of National Green Tribunal case, Chennai and amendment of Aviation Turbine Fuel Supply Order, 2011 on 6.1.2014.
18. During 5<sup>th</sup> to 7<sup>th</sup> Feb.2014, Chief Controller of Explosives chaired the Gas Cylinders Sectional Committee of BIS ME.16 for the Annual Schedule Meeting at Jaipur.

## **SEMINARS**

1. On 7.6.2013, Chief Controller of Explosives attended Seminar/Workshop at Mumbai on “Changes in 2013 Edition of ASME BPV Code” organized by Book Supply Bureau to discuss revisions to be incorporated in the 2013 Edition of ASME Code for pressure vessels.
2. On 31.8.2013, Chief Controller of Explosives chaired the technical session of workshop on “Safety of Gas Cylinders” organized by the All India Industrial Gas Manufacturers Association and gave a key note.
3. On 27.9.2013, Chief Controller of Explosives attended Ammonium Nitrate Awareness Exchange Programme organized by the Dy.Chief Controller of Explosives, Hyderabad with the District and Police Authorities and stakeholders.
4. During 11<sup>th</sup> to 13<sup>th</sup> Nov.2013, Chief Controller of Explosives attended Seminar organized by NDMA on “Technology, Capacity Development, Disaster Risk Reduction of Hazardous Industries, Ports and storage of Petroleum, Petroleum Products and Natural Gas” and gave case study presentation on “Vulnerability and Risk of Fireworks at Sivakasi”.
5. On 18.11.2013, Chief Controller of Explosives attended Asia Pacific Conference on Non-Destructive Testing organized by BARC and APCNDT and gave Keynote address on NDT.
6. On 23-24.11.2013, Chief Controller of Explosives attended Seminar on Pyrotechnic 2013 organised by Fireworks Industries and gave a talk. The programme was inaugurated by Minister of State.
7. On 25.11.2013, Chief Controller of Explosives attended workshop of Explosives of Environmental and Occupational Safety of High Energy material organized by High Energy Materials Laboratory, Pune and gave inaugural address.
8. On 27<sup>th</sup> and 28<sup>th</sup> Nov.2013, Chief Controller of Explosives attended the ANGVA 2013 Conference & Exhibition on “Natural Gas for Vehicles – The Next Generation” and chaired the Session of 28.11.2013.
9. On 30.11.2013, Chief Controller of Explosives conducted One-day Workshop organized by the Dy.Chief Controller of Explosives, Mangalore on “Online-Explosives Return System (ERS) and Tracking of Explosives”.
10. On 21.1.2014, Chief Controller of Explosives attended One-day Workshop on CNG organized by Jt.Chief Controller of Explosives, Agra and chaired Inaugural Session, gave keynote address and took part in the Valedictory Session.
11. On 14<sup>th</sup> and 15<sup>th</sup> Feb. 2014 attended, Chief Controller of Explosives 9<sup>th</sup> International High Energy Materials Conference & Exhibits organized by High Energy Materials Society of India, Thiruvananthapuram Chapter, Vikram Sarabhai Space Centre.

## **LECTURES**

1. On 6.4.2014, Chief Controller of Explosives delivered a talk on 'Fireworks Safety' to Workers, Foreman and Supervisors organized by Mepco Schlenk Engineering College, Sivakasi.
2. On 12.04.2013, Chief Controller of Explosives delivered a talk on Ammonium Nitrate implementation programmes organized by the Dy.CCE, Bhubaneswar and Mahanadi Coalfields Ltd., at Bhubaneswar on.
3. On 19.7.2013, Chief Controller of Explosives delivered a talk on Explosives Act and Rules and the safety related to the explosive storages at Vikram Sarabhai Space Centre, Trivandrum.

## **TRAINING PROGRAMME**

1. On 12.9.2013, Chief Controller of Explosives chaired the Valedictory function – concluding day of the Safety Week Programme organized by Sivakasi office and the Fireworks Industries.
2. On 25.2.2014, Chief Controller of Explosives attended Awareness Programme on Ammonium Nitrate Rules and the Online Explosives Return System organized by the Dy.Chief Controller of Explosives, Ernakulam for the Explosive Users of all Kerala Stakeholders and gave keynote address as Chief Guest and participated in the Valedictory deliberations.

## **INSPECTIONS**

1. Chief Controller of Explosives inspected Port Facilities of Cochin Port Q-2, Q-7 and new container facilities with respect to proposal for export of explosives cargo through Cochin Port on 15.7.2013.
2. Chief Controller of Explosives inspected Mathura Refinery on 22.1.2014.
3. On 29-30.1.2014, Chief Controller of Explosives inspected new High Explosives Factories at Trichy.
4. On 18.7.2013, Chief Controller of Explosives inspected the facilities of explosives and Propellant storages and had discussions on the NHN technology transfer.
5. On 27.10.2013 inspected the trials of automation machineries proposed by the Fireworks Industry.

# MEETINGS, LECTURES, SEMINARS, TRAINING PROGRAMMES OF THE OTHER OFFICERS OF THE ORGANIZATION

## SOUTH CIRCLE, CHENNAI

### MEETINGS

1. Shri S.Sargunaraman, Joint Chief Controller of Explosives accompanied by Shri A.P.Singh, Dy.CCE, Sivakasi and Dr.S.M.Mannan, CE, *Mangalore* attended the Inquiry Committee at Udyog Bhavan, New Delhi to discuss the recommendations of the committee in connection with M/s Om Sakthi Fireworks accident at Sivakasi.
2. Shri N. T. Shahu, DyCCE( I/C) alongwith Shri K. Sundaresan, CE accompanied to CCE and Director DIPP New Delhi for the visit to oil company terminal at Tondiarpet, korrukupet and Ennore port during the month of October, 2013. Officers from IOC, BPCL, HPCL and CPCL attended the meeting to finalise the proposal for shifting of terminals from Tondiarpet, korrukupet to Ennore port area.
3. Shri B. Rengasamy, Dy.CCE Mangalore, conducted a meeting on 12/04/2013 with Sri R.G. Nanjappa, Dy. Director of Factories, Govt. of Karnataka, Chief Installation Officer, of HPCL and MLIF to discuss the accident involving overturning of LPG road tanker and leakage of LPG.
4. Sri B. Rengasamy, Dy.CCE conducted a Meeting with Sri P.V. Bhat, HOD Materials Group, Sri Narayan Raju, HOD Mechanical Maintenance, Sri Umesh, HOD Electrical Maintenance and other Officers of M/s. BEML on 27.04.2013 regarding the steps to be taken for improvement of safety measures.
5. Dr. S. Kamal, Jt.CCE, Nagpur, Dr. S.M. Mannan, CE, Manglore and Dr. R.K.S. Chauhan, DCE, Manglore attended meeting with the ISPRL officers on 02.12.2013.
6. Dr. S. Kamal, Jt.CCE (HQ), Nagpur, Dr. S.M. Mannan, CE, Manglore and Dr. R.K.S. Chauhan, DCE, Manglore attended meeting with the Officers of MRPL, NMPT, HPCL and MLIF during visit to MRPL's Phase II & Phase III sites and NMPT Jetty Nos.13 & 18 on 03.12.2013.
7. Dr. S.M. Mannan, CE, Maglore attended Dakshin Kannada District Disaster Management meeting at Court Hall of the Deputy Commissioner Office, Mangalore, Chaired by the District Magistrate, D.K. Dist on 29.01.2014.

8. Dr. R.K.S. Chauhan, DCE, Manglore attended Central Govt. Employees Co-ordination Committee Meeting at the Office of the Commissioner of Central Excise & Customs at Mangalore on 26.02.2014.

### **LECTURES**

1. Shri S.Sargunaraman, Joint Chief Controller of Explosives delivered lecture on “Safety in Fireworks Industries” at MEPCO Schlenk Engineering College, Sivakasi on 6<sup>th</sup> and 7<sup>th</sup> April 2013.
2. Shri C.Shanmugam, CE delivered lecture on “Ammonium Nitrate Rules” at Collector’s office Cuddalore on 6.9.2013 and at collector’s office Erode 12.9.2013.
3. Sh.K.Sundaresan, CE delivered a lecture on “Explosives Rules, 2008” to the fireworks factory supervisors at Nayagi College of Engineering on 03/12/2013.
4. Shri N.T.Shahu, Dy.CCCE delivered a Guest Lecture in the 268<sup>th</sup> Refresher Course organized by M/s Indian Oil Corporation Limited, Southern Region, Chennai on 20/12/2013.
5. Shri K. Sundaresan, CE delivered a lecture at ONGC headquarters at Egmore, Chennai on “Explosives Rules, 2008” on 10.01.2014.
6. Dr. S.M. Mannan, CE, Manglore delivered a Key-Note address in the National Seminar on “Explosives & Blasting Technique” conducted by NITK, Surathkal on 27.09.2013.
7. On 28/03/2014 Shri V.K.Mishra, Dy.CCE, delivered a lecture on ‘Safety while filling and handling gas cylinders’ in the workshop organized by M/s INOX.
8. Shri V.K.Mishra. Dy.CCE, Hyderabad delivered a lecture on “Petroleum Rules” to IOC depot Managers at Hyderabad on 09.05.2013.
9. Shri V.K.Mishra, Dy.CCE, Hyderabad delivered a lecture to the engineers in the “Institute of Plant Engineers” Hyderabad on 07.06.2013.

### **WORKSHOPS/SEMINARS/AWARENESS PROGRAMMES**

1. Awareness programme for Revenue & Police officials of Tamilnadu for effective implementation of Ammonium Nitrate Rules, 2012 was organised on 09.04.2014.



2. Shri S.Sargunaraman, Joint Chief Controller of Explosives attended the Workshop entitled “Implementation of Ammonium Nitrate Rules, 2012” organised by Dy.Chief Controller of Explosives, Hyderabad on 12.4.2013.
3. *Shri S.Sargunaraman*, Joint Chief Controller of Explosives attended the Workshop entitled “Design and Safety Features of LPG Storage Godowns, Fireworks Shops and Store Houses” organised by Dy.Chief Controller of Explosives, Hyderabad on 13.4.2013.
4. Shri C.Shanmugam, CE attended the Workshop organized by the District Collector, Karur (TN) on “Control and Use of Explosives” On 21.5.2013 with the explosives licence holders and officials concerned.
5. Shri K.Sundaresan, CE attended the mock exercise on “Chemical Disaster” organized by the District Collector, Chennai on 5.6.2013 at HPCL/BPCL/IOCL at Tondiarpet and Korukkupet, Chennai.
6. Shri K. Sundaresan, CE conducted a workshop on “Ammonium Nitrate Rules” for police officers/revenue officers at the Collectorate of Coimbatore on 10.06.2013.
7. Shri C.Shanmugam, CE and Shri U.S.Bhange, Dy.CE attended the CBCID State Police Duty Meet 2013 Anti Sabotage Check competition at Chennai organized by the Director General of Police, CBCID. Chennai on 12.6.2013.
8. Shri C.Shanmugam, CE, attended the two days training capsule course on “Investigation regarding Arms and Explosives Cases” organized by the Dy.Inspector General of Police, Tamilnadu Police Academy, Vandalur, Chennai on 13.6.2013.
9. Shri C. Shanmugam, CE conducted a workshop on “Ammonium Nitrate Rules” at Collectorate of Trichy on 25.07.2013.
10. Shri K. Sundaresan, CE, witnessed a mock drill conducted at propane storage yard of M/s.Hyundai Motors Ltd, Irungadukottai, Kancheepuram district on 02.08.2013.
11. Shri N.T. Shahu, Dy.CCE attended the Second National Fireworks Conference on “Pyrotech 2013” at Sivakasi organized by the Dy.CCE, Sivakasi on 22<sup>nd</sup> and 23<sup>rd</sup> November 2013,
12. Shri N.T. Shahu, Dy.CCE, attended the Workshop on “Online Explosives Return System (ERS)” organized by the Dy.CCE, Mangalore on 30.11.2013.
13. Shri N.T.Shahu, Dy.CCE/Incharge and Shri K.Sundaresan, CE attended one day programme on “Safety Professionals Meet interact with Regulatory Authorities” organized by Safety Engineers Association (SEA India), Chennai on 24.1.2014.

14. Shri N.T.Shahu, Dy.CCCE/Incharge attended the Workshop on “Online Explosives Return System” organized by PESO & Tamilnadu Explosives Dealers Association at Chennai on 30.1.2014.
15. Shri N.T.Shahu, Dy.CCE and Shri U.S.Bhange, DCE participated in the National Safety Day Programme at SHAR Centre, Sriharikota organized by the Chairman, Centre Safety Committee, DGM. TF/VAST, Sriharikota on 4.3.2014.
16. Shri K.Sundaresan, Dy.CCE participated delivered a speech in general safety during safety week celebrations at M/s.Praxair India Ltd Sriperumbudur on 6.3.2014.
17. Dr.R.K.S. Chauhan, DCE, Manglore attended Hon’ble Court of JMFC, Kanjiruppally, Kottayam Dist. Kerala on 17.04.2013 to tender evidence in CC No.372/09.
18. Dr. R.K.S. Chauhan, DCE, Manglore attended Hon’ble Court of JMFC, Kayakulam, Dist. Idukki, Kerala on 16.05.2013 to tender evidence in CC No.185/2010.
19. Dr. R.K.S. Chauhan, DCE, manglore attended TOLIC’s 54<sup>th</sup> half yearly Hindi Meeting at the Corporation Bank headquarters in Mangalore on 28.05.2013.
20. A workshop on “Statutory Requirements for Construction of LPG Storage Sheds and Fireworks shops” was organized by PESO, Chennai on 13.04.2013 in association with LPG distributors and Fireworks dealers
21. A work shop organized by M/s AIGMA on “Gas Cylinders Rules” at Hyderabad was attended by Shri V.K.Mishra, Dy.CCE, Hyderabad on 31.08.2013.
22. A workshop was organized by PESO, Hyderabad in association with Cement Industry on “Implementation of Ammonium Nitrate Rules, 2012” 27.09.2013. Delegates from the State Government and Cement Industry attended the workshop.
23. Workshop on “Implementation of Ammonium Nitrate Rules, 2012” was conducted by Dr. S.M. Mannan, CE, Manglore at the O/o Commissioner of Police, Mysore on 07.08.2013. Representatives of the District Authority from Mysore, Hassan, Mandya, Chamarajanagar & Koadu Districts attended the Workshop.
24. Workshop on “Implementation of Ammonium Nitrate Rules, 2012” was conducted by Dr. S.M. Mannan, CE, Manglore at the O/o Deputy Commissioner, Mangalore on 17.08.2013. Representatives of the District Authority from Dakshina Kannada, Uttara Kannada, Shimoga & Chickmagalur District attended the Workshop.
25. Dr. S.M. Mannan, CE, Manglore attended Mock Drill conducted by M/s. HPCL LPG import facility, at Bala village, Mangalore on 12.09.2013.

26. Workshop on “Implementation of Ammonium Nitrate Rules, 2012” was conducted by Dr. S.M. Mannan, CE, Manglore at the O/o Deputy Commissioner, Bellary on 18.09.2013. Representatives of the District Authority from Bellary, Koppal, Chitradurga & Davanagere Districts. attended the Workshop.
27. Sri B. Rengasamy, Dy.CCE, Manglore attended On-site Mock Drill at the POL terminal of M/s. IOCL at Panambur, Mangalore on 26.09.2013.
28. Dr. S.M. Mannan, CE, Manglore & Dr. R.K.S. Chauhan, DCE, Manglore attended National Seminar on “Explosives & Blasting Technique” conducted by NITK Surathkal, Mangalore on 27<sup>th</sup> & 28<sup>th</sup> September 2013.
29. Workshop on “Implementation of Ammonium Nitrate Rules, 2012” was conducted by Dr. RKS Chauhan, DCE, Manglore at the O/o Dy. Commissioner, Gulbarga on 08.10.2013. Representatives of the District Authority from Gulbarga, Bidar, Yadgir, Bijapur and Raichur attended the workshop.
30. Workshop on “Implementation of Ammonium Nitrate Rules, 2012” was conducted by Dr. RKS Chauhan, DCE, Manglore at the O/o Dy. Commissioner, Belgaum on 10.10.2013. Representatives of the District Authority from Belgaum, Dharwad, Gadag, Haveri and Bagalkot attended the workshop.
31. Workshop on “Implementation of Ammonium Nitrate Rules, 2012” was conducted by Dr.S.M. Mannan, CE, Manglore for the Police Officers of Bangalore City on 25.11.2013 & 26.11.2013.
32. A One day Workshop on “On-line Explosives Returns System (ERS)” was jointly Organised by Dy.CCE Mangalore & Karnataka State Explosives Dealers & Users Association on 30.11.2013 at Bangalore.

## **WEST CIRCLE, MUMBAI**

### **MEETINGS**

1. Sh. A.K. Yadav, C.E., Mumbai attended 11<sup>th</sup> meeting of (BIS) Occupational Safety & Health and Chemical Hazards Sectional Committee CHD 8 on 16.04.2013.
2. Sh. R.K. Maindola, Dy.CCE, Mumbai attended meeting with District Magistrate, Raigad on Safety pertaining to pipeline issues on 15/06/2013.
3. Quarterly meeting with Dy.CCE, Baroda, Dy.CCE, Departmental Testing Station, Gondkhairy, Nagpur and C.E. Wardha was held in the office of Jt.CCE, Mumbai on 12/07/2013 regarding matters related to Administration, Finance and Inspections etc.
4. Smt. A.U. Khalwadekar, CE attended a meeting regarding CNG On-Board Cylinders conducted by Principle Secretary Transport, Govt. of Maharashtra alongwith Transport Commissioner and Joint Transport Commissioner at Mumbai on 31/08/2013.
5. A meeting was conducted with the owners of the testing station for CNG On-Board Cylinders in the office of Jt.CCE, Mumbai regarding the genuine testing of CNG cylinders on 10/09/2013.
6. Shri S.D. Mishra, DCE, Baroda attended meeting at Gujarat State Disaster Management Authority at Gandhinagar on 21/11/2013.
7. Dr. D.C. Pandey, CE, Baroda attended Gujarat Maritime Board meeting on 22/11/2013 at Bhavnagar, Gujarat.
8. Shri S.K. Shukla, Dy.CCE, Mumbai attended a meeting chaired by Additional Secretary (Home), Maharashtra regarding Transportation of hazardous & Inflammable Substance - Preparation of action plan by Maharashtra Government on 11.03.2014.

### **Lectures**

1. Sh. G.M. Reddy, Jt.CCE, Mumbai attended a conference on “Chemical (Industrial) Disaster Management (CIDM)” at Goa on April, 16 – 18, 2013 and delivered a lecture on “Role of PESO in Safe Transportation of Hazardous Goods”.
2. Shri S.D. Mishra, Dy.CE, Baroda delivered a lecture on “Safety Precautions for Explosives Blasting” at ONGC Bharuch on 25/04/2013.
3. Sh. G.M. Reddy, Jt.CCE delivered a lecture on “Petroleum Rules 2002, SMPV (U) Rules, 1981 & Gas Cylinder Rules, 2004” for officials of BPCL at Uran Bottling Plant, Raigad on 01.05.2013.
4. Dr. D.C. Pandey, CE, Baroda delivered a lecture on “Safe Handling of Explosives” to ONGC Officers at Vadodara on 17.05.2013.
5. Shri V.B. Borgaonkar, Dy.CCE, Gondkhairy, Nagpur delivered a lectures on “Explosives Acts and Rules” to the officers including three foreign students in DTS and also given them training on Testing of Explosives on 18.05.2013.
6. In-house capacity building programme was organised by the office of Jt.CCE, West Circle, Mumbai. Shri G.M. Reddy Jt.CCE delivered a lecture on LA/LS manufacturing process on 20.05.2013.
7. Smt. A.U. Khalwadekar, Controller of Explosives delivered a lecture on “SMPV Rules” organised by National Safety Council for their Engineers on 23.10.2013.
8. Shri S.K. Shukla, Dy.CCE, Mumbai delivered a lecture on Testing and Examination of Pressure Vessels under SMPV Rules, 1981 organised by National Safety Council on 05.03.2014.

## **SEMINARS, WORKSHOPS, ORGANISED/ATTENDED**

1. Shri S.D. Mishra, Dy.CE, Baroda attended one day seminar on “Development of framework for ensuring safety in CNG installations, usage and periodical testing organized by Transport Commissioner Gujarat State at Ahmedabad on 29.05.2013.
2. Sh. G.M. Reddy, Jt.CCE attended a seminar on CNG at Bombay alongwith the Transport Commissioner of Maharashtra on 29.06.2013.
3. A workshop on Ammonium Nitrate Rules, 2012 was conducted in the O/o. Dy.CCE, Vadodara on 05.08.2013 and the officers from District Authorities attended the workshop.
4. Shri Rakesh Kumar, LDC O/o. Jt.CCE attended a training programme for submission of online Hindi Quarterly Progress Report at Bharatiya Kapas Nigam, Belapur on 12.08.2013.
5. Shri G.M. Reddy, Jt.CCE alongwith Dr. Sanjana Sharma, Dy.CCE, Baroda attended a workshop on safety in the manufacture of high explosives on 23.08.2013 & 24.08.2013 at Nagpur.
6. A workshop on safe handling of Chlorine was conducted in the office of Jt.CCE, West Circle, Mumbai on 27.08.2013. Shri P.C. Saraf, ex-employee of Century Rayon, Kalyan delivered a lecture.
7. Shri B. Gautam, Steno – II of Mumbai office participated in Hindi dictation Competition organized by Konkan Railway Corporation on 04.09.2013.
8. Hindi Week was celebrated in the office of Jt.CCE, Mumbai between 13.09.2013 to 19.09.2013 and all the staff and officers participated in various activities such as Hindi Essay, Poster Competition, Rangoli, Anatakshri, Hindi Dictation etc.
9. Vigilance Week celebrated in the O/o. Jt.CCE, West Circle, Mumbai from 28.10.2013 to 02.11.2013. Lt. Col. D.P. Singh was Chief Guest.
10. Shri R.K. Maindola, Dy.CCE, Mumbai, Shri Abdul Muttalib, Controller of Explosives, Mumbai and Shri Deepak Kumar, Dy.CE, Mumbai attended Asia Pacific NDT Conference. Shri T.R. Thomas, CCE was Guest of Honour.
11. Shri Sanjoy Sen, Jt.CCE attended the award ceremony on 13.02.2014 organised by Founder – World CSR Day & World CSR Congress & Project Director - Asia Oil & Gas Congress & Awards and received the award for ‘Best Employer Brand Organisation in Oil & Gas, LPG’ on behalf of CCE on 13.02.2014.

## **NORTH CIRCLE**

### **VISITS**

1. Shri T.R.Thomas, Chief Controller of Explosives, Nagpur visited and inspected the office of Dy.Chief Controller of Explosives, Jaipur on 03.03.2014.

### **MEETINGS**

1. Shri R.C.Kaul, Jt.CCE, NC, Faridabad attended meeting with Secretary, DIPP, Ministry of Commerce and Industry, New Delhi on 03.04.2013.
2. Shri R.C.Kaul, Jt.CCE, NC, Faridabad attended kick-off OISD meeting at OIDB Bhawan, Noida on 09.04.2013.
3. Shri R.C.Kaul, Jt.CCE, NC, Faridabad attended meeting with Jt. Secretary, DIPP, Ministry of Commerce and Industry, New Delhi on 25/04/2013.
4. Shri Ajai Singh, CE, Chandigarh attended a meeting with District Collector, Chandigarh on 01.05.2013 at his office on Ammonium Nitrate Rules, 2012.
5. Shri R.C.Kaul, Jt.CCE, NC, Faridabad attended OISD meeting at OISD office Noida on 09.05.2013.
6. Shri R.C.Kaul, Jt.CCE, NC, Faridabad attended meeting on Administrative matters at Nagpur with Chief Controller of Explosives on 21.06.2013.
7. Shri P.Kumar, Dy.CCE, Chandigarh attended a meeting with the CCE, Nagpur in his office on administrative matters on 05.07.2013.
8. Dr.Anoop Kumar, Dy.CCE Jaipur and Sh.Umesh Prashad, L.D.C. attended half yearly meeting of Nagar Rajbhasha Karyanvan Samiti (Central Govt.Offices) at Jaipur in the O/o the Principal Accountant General (Lekha and Hak) Rajasthan, Jaipur on 19.08.2013.
9. Dr.Anoop Kumar, Dy.CCE (I/C) Office of Jt.Chief Controller of Explosives, NC, Faridabad, Shri Vinod Kumar, Dy.CCE & Dr.Sanjay Kumar Singh, Dy.CE, Faridabad attended meeting with Senior Research Officer Sansadiya Rajbhasha Samiti New Delhi on 03.09.2013 and 09.09.2013.
10. Shri P.Kumar, Dy.CCE, Chandigarh attended a meeting in the office of Jt.CCE, NC, Faridabad on important official matters on 18.10.2013.
11. Shri R.Rawat, CE Jaipur and Sh.Umesh Prashad, L.D.C. attended quarterly meeting of Nagar Rajbhasha Karyanvan Samiti (Central Govt.Offices) at Jaipur in the O/o the Principal Accountant General (Lekha and Hak) Rajasthan, Jaipur.

12. Shri R.Rawat CE, Jaipur attended meeting on 13.11.2013 at D.M.Udaipur.
13. Dr.Anoop Kumar, Dy.CCE (I/C) Office of Jt.Chief Controller of Explosives, NC, Faridabad attended Hindi meeting at NARAKAS M/s NHPC Limited, Sector-33, Faridabad alongwith Shri Karmbir Singh, Steno-I on 22.11.2013.
14. Dr.Anoop Kumar, Jt.Chief Controller of Explosives, NC, Faridabad attended the meeting of “Storage Panel of STECK” at Centre for Fire, Explosives and Environment Safety(CFEES) at Timarpur Delhi on 30/12/2013.
15. Dr.Anoop Kumar, Jt.Chief Controller of Explosives, NC, Faridabad and Shri R.S.Maurya, Steno-II attended a meeting at Employees Provident Fund Organisation, Ministry of Labour and Employment, Government of India, Regional Office, Haryana, Bhavishya Nidhi Bhawan Sector-15A, Faridabad on 31/01/2014.
16. Dr. Sanjay Kumar Singh, DCE, Faridabad attended a meeting with Commissioner of Police, Faridabad regarding fast implementation of Ammonium Nitrate Rules, 2012.
17. Sh.R.Rawat CE, Jaipur attended meeting at D.M.Jaipur on 18.02.2014.
18. Sh.R.Rawat,CE, Jaipur attended meeting of Supdt.of Police, Dausa office for E.R.2008 and Ammonium Nitrate Rules, 2012 on 20.03.2014.
19. Dr.Anoop Kumar, Jt.Chief Controller of Explosives, NC, Faridabad attended Seventeenth Meeting of Chemical Division Council (CHDC) at Bureau of Indian Standard (BIS) New Delhi on 26.03.2014.
20. Shri P.Kumar, Dy.CCE, Chandigarh attended a meeting in the office of Jt.CCE, NC, Faridabad on 12-04-2014 on important official matters.

## **LECTURES**

1. The officers of Office of Dy.Chief Controller of Explosives, Jaipur delivered a lecture on Ammonium Nitrate Rules 2012 to District Authorities Representatives on 05/04/2013, 26/04/2013, 10/05/2013 and 21/06/2013 at Office of Dy, CCE, Jaipur.
2. Shri P.Kumar, Dy.CCE, Chandigarh and Dr.S.K.Singh, DCE, Chandigarh delivered lectures on Ammonium Nitrate Rules, 2012 to District Authorities on 04.05.2013 at PACL, Naya Nangal and on 17.05.2013 at Shimla.
3. Dr.Sanjay Kumar Singh, DCE, Faridabad delivered a lecture on Explosive regulations applicable in Oil Industry to field officers from Aviation fuel Stations across India of M/s Indian Oil Corporation Limited at IIPM Gurgaon on 22.10.2013 and 26/02/2014.



4. Dr. Anoop Kumar, Jt. Chief Controller of Explosives, NC, Faridabad delivered a lecture on “Role, Acts and Rules administered by PESO” to the Senior Indian Air Force Officers at Directorate of Armament and Safety Equipment, Air Head Quarters, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi on 29.01.2014.
5. Shri S.G. Kadam, CE, Faridabad delivered a lecture on “Explosives Act, 1884, Gas Cylinders Rules 2004, Calcium Carbide Rules, 1987 & SMPV(U) Rules, 1981” at Regional Labour Institute, Faridabad on 25.03.2014.
6. Dr. R. Bajaj, CE, Faridabad delivered a lecture on “Petroleum Act 1934/Petroleum Rules 2002” at Regional Labour Institute, Faridabad on 26.03.2014.
7. Shri R.C. Kaul, Jt. CCE, NC, Faridabad delivered a lecture on CNG station and cylinders in the Seminar titled “Framework for Ensuring Safety in CNG Installation and Usage and Periodical Testing” organized by Transport Commissioner and CNG stake holders at Ahmedabad on 29.05.2013.

### **WORKSHOPS/ SEMINARS**

1. A workshop on “Enforcement of Ammonium Nitrate Rules, 2012” was organized in the office of Dy. CCE, Chandigarh on 05.04.2013, 18.04.2013, 28.05.2013 & 11.06.2013.
2. A workshop on “Ammonium Nitrate Rules, 2012” was organised at PACL Naya Nangal, Ropar on 04/05/2013 and Sai Bhawan, Shimla on 17.05.2013 by Shri P. Kumar, Dy. CCE, Chandigarh.
3. Shri Ajai Singh, CE of office of Dy. CCE, Chandigarh attended a seminar on 15.06.2013 on “Safety Aspects at AFS Depot” Chandigarh.
4. Shri Ajai Singh, CE, Chandigarh attended a workshop regarding on-line submission of quarterly and annual Hindi Progress Reports at NITTI, Sector-26, Chandigarh.
5. Dy. CCE, Chandigarh organized a Hindi workshop on 13.09.2013 in his office.
6. Workshops on Ammonium Nitrate Rules, 2012 were conducted on dated 05.04.2013, 26.04.2013, 10.05.2013 and 21.06.2013 in the O/o Dy. CCE Jaipur.

## **CENTRAL CIRCLE, AGRA**

### **MEETINGS**

1. Quarterly review meeting of Central Circle was organized at O/o JtCCE, Agra on 31.05.2013 and 01.06.2013. All Sub-Circle heads of Central Circle participated in the meeting
2. A coordination meeting with PSU Oil companies officers was organized at Gorakhpur. Shri Kailash Kumar, JtCCE chaired and addressed the meeting on 05.07.2013.
3. A coordination meeting with Form XV license holders was organized at IOCL's divisional office at Lucknow (U.P.) on 30.09.2013. Shri Kailash Kumar, JtCCE, Agra chaired and addressed the meeting.
4. Quarterly review meeting of Central Circle was organized at O/o JtCCE, Agra on 13.09.2013 and 14.09.2013. All Sub-Circle heads of Central Circle participated in the meeting.
5. Shri Kailash Kumar, JtCCE participated in a meeting with CCE, Nagpur at O/o JtCCE, Faridabad on 25.09.2013 in connection with Rajbhasha Parliamentary Sub-Committee inspection of Hindi work of O/o JtCCE, Faridabad.
6. JtCCE, CC, Agra accompanied CCE, Nagpur in Rajbhasha Parliamentary Sub-Committee inspection of Hindi work of O/o JtCCE, Faridabad at Delhi on 26.09.2013.
7. A coordination meeting was organized by IOCL, Agra on 08.10.13. All officers of O/o JtCCE, Agra and IOCL participated.

### **WORKSHOPS/SEMINARS**

1. A workshop was organized at Mahoba (U.P.) on 15.06.2013 for creating awareness about Ammonium Nitrate Rules amongst stake holders. Dr. A.K. Yadav, DCCE and Shri S.K. Bhole, DCE coordinated and participated in the workshop.
2. A workshop on "Online Submission of Applications" was organized at O/o JtCCE, Agra on 26.06.2013. Technical representatives of Reliance and Essar oil companies operating in Central Circle area participated in the workshop.
3. The O/o CE, Raipur conducted one day workshop on "Ammonium Nitrate Rules, 2012" Dist. Janjgir Champa on 28.06.2013 for Ammonium Nitrate stake holder/user industry and district/police Authority.
4. The O/o DyCCe, Bhopal organised one day workshop on "Dissemination of Information and updating the District Authorities about Ammonium Nitrate Rule 2012" on 04.07.2013 at district Satna (M.P.)

5. A workshop on “Effective Implementation of Ammonium Nitrate Rules, 2012” was conducted by CE, Raipur on 07.07.2013 for Police Officers at Police Headquarter, Raipur.
6. Shri M.K.Jhala, Dy.CCE attended Mock drill on 17.07.2013 conducted by M/s Reliance Industries Ltd, Petroleum Depot, Bakaniya Bhourri, Bhopal.
7. An in-house capacity building/training was organized at O/o JtCCE, Agra on 26.07.13 and 27.07.13. All the officers of Agra office and CE/DCE posted at Sub-Circle offices of Central Circle participated in the training.
8. DCE, Raipur, attended two days capacity building programme organised by Jt. CCE, Agra from 26.07.2013 to 27.07.2013 and delivered power point presentation on “Inspection of SME plants and Gas Filling Plants”.
9. Sri A.K. Mehta, CE, Allahabad made a presentation on MSIHC Rules 1989 in the O/o the Jt.CCE ,CC, Agra on 26.07.2013.
10. A workshop on “Online Submission of Applications” was organized at O/o JtCCE, Agra on 23.08.2013. Technical representatives Oil companies operating in Central Circle area participated in the same.
11. A workshop on “Online Submission of Applications” was organized at O/o JtCCE, Agra On 13.09.13. Officers of IOCL operating in Central Circle area participated in the same. All Sub-Circle heads of Central Circle also participated in the workshop.
12. A workshop was organized on “Automation in Retail Outlets” at O/o JtCCE, Agra on 10.09.13. Technical officers of BPCL made a presentation on the subject matter followed by detailed discussions on the workshop.
13. CE, Raipur attended half yearly Hindi Narakas meeting at O/o. Commissioner of Central Excise, Raipur on 29.10.2013.
14. Team of officers comprising of Shri M.K.Jhala, Dy.CCE and Shri M.G.Titre, CE, Raipur conducted safety audit and inspected High Explosives Manufacturing factories of M/s Navbharat Explosives Co. Ltd. & M/s Navbharat Fuse Co. Ltd. at Raipur (C.G) on 11<sup>th</sup> & 12<sup>th</sup> November 2013 as per direction of Jt.CCE.
15. Safety Audit was conducted by Shri M.I.Z. Ansari, CE at BEL, Lalitpur on 28.11.2013 and at Gail, Pata on 16-18.12.2013.
16. Safety Audit was conducted by team of officers Dr. A.K. Yadav, DCCE, Dr. T.L. Thanulingam, CE and Smt.V.S. Bardeo Dy. CE, at Mathura Refinery on 18.12.2013.
17. Shri M.K. Pandey, CE interacted with district authorities of Barabanki, U.P. for the implementation of Ammonium Nitrate rules, 2012 on 24.12.2013.
18. CE, Raipur conducted Safety Audit of M/s. Navbharat Explosives Ltd., At Urla, Abhanpur, Dist. Raipur along with CE, Agra on 02.01.2014 to 03.01.2014.

19. Dr. A.P.Singh, Dy.CCE, Allahabad observed 'Emergency Response Drill' on 06.01.2014 by M/s IOCL Bottling Plant, Jhansi, Allahabad.
20. C.E., Raipur attended Hindi Rajbhasha meeting by Jt. CCE, Agra on 20.01.2014.
21. CE., Raipur attended one day seminar on CNG in Agra by Jt. CCE, Agra on 21.01.2014.
22. Shri M.K.Jhala, Dy.CCE attended a workshop on "Safety Management in CNG System" on 21.01.2014 in the Office of Jt.CCE, Agra.
23. Dr.(Mrs.) R.R.Gupta, CE attended "Workshop on Safety Management in CNG Systems" by O/o Jt CCE, Agra on 21<sup>st</sup> January 2014 at Hotel Marina, Sanjay Place, Agra.
24. CE attended Co-ordination meeting with PSU oil company in Bhopal headed by Jt. CCE, Agra and also attended one day seminar on "Online System for Implementation of Explosives Rules, 2008" on organized by Dy. C.C.E, Bhopal on 18.02.2014.
25. Shri Prakash Chandra Mishra, Assistant Director (Official Language) and Member Secretary, Nagar Rajbhasha Karayanvan Samiti, Allahabad delivered lectures on development & implementation of official language during the quarterly workshops conducted by this office on 24.06.2013 and 18.09.2013, 19.12.2013 & 27.03.2014

## **EAST CIRCLE, KOLKATA**

### **MEETINGS /SEMINARS /LECTURES**

1. Dr. D.J.Roy, Jt.CCE and Shri K.P.Sharma, CE attended two days workshop on 31.5.2013 and 1.6.2013 on Energy management in chemical petrochemical and allied industries organized by Indian Institute of Chemical Engineers (IChE) Kolkata and Petroleum Conservation and Research Association (PCRA).
2. Dr. D.J. Roy, Jt.CCE attended one day national seminar on chemical industry: In quest for clean Technology & sustainable development organized by Indian Institute of Chemical Engineers Kolkata on 22.6.2013. He also presided a session on this occasion.
3. Shri R.N. Meena DyCCE and Shri K.P.Sharma, CE attended a meeting at PTS Auditorium, Kolkata on 17.09.2013. Shri RN Meena, DyCCE delivered a talk on safety norms as per provision of Explosives Rules, 2008 on this occasion.
4. Shri R.N.Meena, Dy.CCE attended a meeting with M/s IOCL (LPG) Kolkata in the month of October 2013
5. Shri RK Maindola, JtCCE and Shri RN Meena, DyCCE attended a meeting on 28.01.2014 organized by M/s. IOCL in their Zonal Office, Kolkata. Shri RK Maindola JtCCE presided the meeting and spoke about the safety guidelines for retail outlets. Shri R. N. Meena, DyCCE also talked on the Petroleum Rules, 2002.
6. Shri RK Maindola, JtCCE alongwith Shri RN Meena DyCCE, Shri KP Sharma, CE, Shri S. Kandasamy DyCE and Shri S Saravanan DyCE attended a programme on 12.1.2014 on the occasion of National Youth Day celebration organized by Indian Institute of Environment & Management, Kolkata. Jt.CCE headed the meeting and delivered a lecture on social responsibility of PESO and the need of Swami Vivekananda's thought in today's scenario.
7. Shri S.Kandasamy, Dy.CE attended a meeting on 24.3.2014 with Commissioner, Kolkata Municipal Corpn. regarding licence in form XV of Petroleum Rules, 2002.
8. Dr. Ruab Ali, CE, performed Safety Audit Inspection of IEL, Gomia alongwith Shri R.P.Singh, Dy.CCE, Ranchi during the period 05.06.2013 to 08.06.2013.
9. Dr. Ruab Ali, CE, attended meeting on 24.10.2013 regarding sale of Fireworks in the O/o the Commissioner of Police, Kolkata along with Shri K.P.Sharma, CE.

**REPRESENTATION OF SCHEDULED CASTES/SCHEDULED TRIBES/OBCs/EX-SERVICEMEN AND PHYSICALLY DISABLED PERSONS IN SERVICE**

**1. REPRESENTATION OF SCHEDULED CASTES/TRIBES/OBCs:**

The Scheduled Castes/Scheduled Tribes Cell in the organization functions under a Liaison Officer of the rank of Dy. Chief Controller of Explosives. Similar Cells are also functioning in Circle Offices of the organization.

The Scheduled Castes/Scheduled Tribes Cell not only deals with the proposal relating to the de-reservation of posts but also looks into the grievances, if any, in respect of service matters of employees belonging to the categories of Scheduled Castes/Scheduled Tribes and takes appropriate remedial measures to alleviate their grievances/problems.

The organization also issues periodic directions to the administrative sections as well as the appointing authorities under its control to seek proper implementation of the directives on reservation for members of the Scheduled Castes/Scheduled Tribes in services.

The break-up of the number of Scheduled Castes/Scheduled Tribes and Other Backward Class persons belonging to Group 'A', 'B', 'C' & 'D' posts in the organization and its subordinate offices is given below:

<b>Sr. No.</b>	<b>Category of Posts</b>	<b>No. of Scheduled Caste persons</b>	<b>No. of Scheduled Tribe persons</b>	<b>No. of Other Backward Classes persons</b>
1	Group 'A'	19	04	22
2	Group 'B'	07	02	03
3	Group 'C'	48	22	52
4	Group 'D'	20	07	07

## **2. REPRESENTATION OF PHYSICALLY DISABLED PERSONS IN SERVICE**

The Organization has been making vigorous efforts to ensure effective implementation of reservation orders for physically handicapped persons. The organization has identified some Group 'A', 'B', 'C' and 'D' posts, which are held by physically handicapped persons.

The break-up of the number of physically handicapped persons belonging to Group 'A', 'B', 'C' & 'D' posts in the organization and its subordinate offices is given below:

<b>S.No.</b>	<b>Category of Post</b>	<b>No. of Physically Handicapped Persons</b>
1	Group 'A'	1
2	Group 'B'	0
3	Group 'C'	4
4	Group 'D'	0

## **VIGILANCE ACTIVITIES**

Vigilance activities of the Organization are under direct command of Chief Controller of Explosives, Head of the organization. Apart from Head office at Nagpur, Vigilance Cell is functional in all the Circle and Sub-Circle offices, Testing Station, Gondkhairi, Nagpur and FRDC, Sivakasi of the organization. The Head of the each subordinate office is heading the vigilance cell and reports to the Chief Controller of Explosives directly.

Preventive vigilance receives priority attention with primary emphasis on identification of areas, which are sensitive or prone to malpractices and temptations. Instructions and guidelines issued by the Department of Personnel & Training, Central Vigilance Commission and Chief Vigilance Officer of the Department of Industrial Policy and Promotions are followed.

Vigilance Awareness Week was observed in all the offices of the organization in accordance with the guidelines of CVC. All the officers and staff members of the organization took pledge and various activities were organized to highlight awareness about effective preventive measures undertaken through system improvements and use of Information Technology to achieve transparency, accountability, fair play, objectivity and timely response in all matters.

Following measures have been taken to monitor activities of officers of the organization:

1. Activities of sensitive nature have been identified and surveillance is maintained thereon.
2. Activities relating to frequent dealing with common public have been decentralized to the Circles & Sub-Circles, thereby reducing delay in disposals and reducing possibilities of malpractices.
3. Heads of the offices monitors activities of subordinate officers regularly.
4. Activities of Heads of Sub-Circle offices are monitored by Heads of Circle Offices.
5. The Chief Controller monitors activities of Heads of Circle offices and other offices of Head office.



6. Regular and surprise inspections are carried out by nominated officers and Heads of offices/organization to review sensitive areas/activities of officials.
7. Vigilance activity has also been extended to cover the visitors coming for meeting the concerned officers on official matters, by making a separate reception room, visitor's room and introducing a system of issue of visitors passes which are to be signed by the concerned officers. Also the reception area, visitor's area, lobby etc. is monitored through CCTV system.
8. List of dealing officers with their authorized areas of activities have been conspicuously displayed in the reception room.
9. List of officials suspected to be indulging in malpractices is maintained and their activities are closely monitored.
10. Public complaints about malpractices are given top priority and are investigated by the Head of the Organization /Head of the Office.
11. Name and telephone number of the Head of the organization and Heads of offices have been notified under the 'Grievance Redressal' sub menu of Organizations web site <http://peso.gov.in> and redressal of genuine grievance / complaints of stake holders is assured in the Citizens Charter of the Organization, hosted on the website of the Organization with a view to facilitate easy access by the aggrieved parties.
12. The dealing officers and assistants are made acquainted with the provisions of conduct rules and instructions issued by the Government from time to time.

## **USE OF OFFICIAL LANGUAGE IN THE ORGANISATION**

Petroleum and Explosives Safety Organisation (PESO), together with its five circle offices, eighteen Sub-circle offices, Departmental Testing Station at Gondkhairi and Fireworks Research and Development Centre at Sivakasi is continuously making co-ordinated efforts for compliance of the Annual Program which is being issued by the Department of Official Language. Under the leadership of Shri T.R. Thomas, Chief Controller of Explosives, the Organisation is marching towards its goal with utmost dedication and making every effort for promotion of Official Language.

With the objective of creating awareness for progressive use of Hindi in official work, various programs are organized in all the offices throughout the year and employees are motivated for carrying out maximum official work in Hindi. The incentive scheme of Central Government for noting/drafting in official work which is done originally in Hindi has been implemented in the organisation and as a regular practice; this year also employees participating in the scheme were awarded during “Hindi Fortnight” Celebration.

Visitors pass, Visiting cards of officers have been made bilingual. For promotion of Official Language Hindi – one word/quotation in Hindi with its English translation is displayed daily on the notice board.

In compliance with Section 3(3) of the Official Languages Act, the organization's online licensing module has been made bilingual. Important letters issued by the Ministry are forwarded immediately to all circle/sub-circle offices for their compliance using the e-mail/support site of the organization. All letters received in Hindi are compulsorily replied in Hindi.

### **BILINGUALISATION OF THE WEBSITE**

In compliance of the Official Language Policy of the Government, the official website of PESO has been made bilingual in English and Hindi and is updated at regular intervals. The information about working/activities/important achievements, etc of the organisation is displayed both in hindi and english languages on the website. A separate link “Rajbhasha” has been provided on the website under which organization’s activities, achievements, etc. in respect of Official Language are displayed.

### **MONITORING AND INSPECTIONS**

On 26.09.2013, officers of the third sub-committee of the Committee of Parliament on Official Language inspected the office of the Jt. Chief Controller of Explosives, Faridabad with a view to ensure compliance of Official Language Policy and praised their contribution towards progress of Hindi.

The Chief Controller of Explosives and all the other officers of the O/o Chief Controller of Explosives, Nagpur regularly carry out inspections of the Circle and Sub-circle offices to

ensure compliance of Official Language Policy. During the year 15 Official Language inspections were carried out by CCE and his officers.

### **MEETINGS OF THE DEPARTMENTAL OFFICIAL LANGUAGE IMPLEMENTATION COMMITTEE**

During the year under report, three meetings of the above Committee have been held in which various important issues were discussed for effective implementation of the official language policy in offices. The committee members have continuously been appreciating the performance/progress achieved by the office in respect of increased use of Hindi in official work and other related activities.

### **PARTICIPATION IN THE MEETING OF THE ADVISORY COMMITTEE OF DIPP**

Shri T.R. Thomas, Chief Controller of Explosives and Shri R.C. Kaul, Jt. Chief Controller of Explosives, North Circle, Faridabad attended the meeting of Official Language Implementation Committee of DIPP held at New Delhi on 22.07.2013 under the chairmanship of Dr. E. M. Sudarshan Nachiyappan Hon'ble Minister of State for Commerce and Industry

Shri Rajnish Piplani, Dy. Chief Controller of Explosives, Nagpur attended the meeting of Official Language Implementation Committee of DIPP held at New Delhi on 10.01.2014 under the chairmanship of Dr. E. M. Sudarshan Nachiyappan Hon'ble Minister of State for Commerce and Industry

### **MEETINGS OF THE TOWN OFFICIAL LANGUAGE IMPLEMENTATION COMMITTEE (TOLIC)**

In order to ensure progress of Hindi, the officers of Head office as well as circle and sub-circle officers regularly attended the meetings of the TOLIC. Shri T.R. Thomas, Chief Controller of Explosives and Smt. Vaishali Cirde, Hindi officer, Nagpur attended the 58<sup>th</sup> half yearly meeting of Town Official Language Implementation Committee held on 24.10.2013 and in its 59<sup>th</sup> meeting held on 24.05.2013 was attended by Shri Rajnish Piplani, Dy. Chief Controller of Explosives and Smt. Vaishali Cirde, Hindi officer, Nagpur.

Employees participated in the various Inter-office competitions organised under the aegis of TOLIC, Nagpur and bagged various prizes.

### **PUBLICATION OF HINDI MAGAZINE “VISPHOTAK DARPAN”**

With the aim of increasing use of Hindi to the maximum and utilization as well as propagation of writing skills of the officers/employees, the 13<sup>th</sup> issue of in-house magazine, “**Visphotak Darpan**” was published during the Hindi Fortnight celebration. The Officers and staff of Head Office as well as circle and sub-circle offices contributed their articles, poems, etc. for the magazine.

A dedicated column is reserved in the Quarterly Newsletter of PESO highlighting activities thus promoting the use of official language Hindi.

The office of the Jt. Chief Controller of Explosives, Agra also publishes its journal “Madhyanchal Darpan” and Madhyanchal Samachar regularly.

### **HINDI TRAINING**

To facilitate maximum work in Hindi, Priority is being given to the work of imparting Training in Hindi, hindi typing, shorthand, Pragya etc. and almost all the employees have been trained in Hindi.

### **IMPLEMENTATION OF OFFICIAL LANGUAGE – USE OF COMPUTERS/IT TOOLS**

For ensuring implementation of official language, Universal code-**Unicode** is being used by the organization. Almost all computers are Unicode enabled. Under the computerization of official work, facilities such as bilingual modules, website, e-mail, Internet, use of support site etc. is providing momentum to the promotion of official language. Online licensing modules of the Organization have been made bilingual in compliance of Section 3 (3) of the Official Languages Act. The instructions and orders given on the official website of the Department of Official language [www.rajbhasha.gov.in](http://www.rajbhasha.gov.in) are strictly adhered to.

### **CREATION OF ONLINE QUARTERLY HINDI PROGRESS REPORT MODULE**

For monitoring of implementation of official language in the Organisation, the work of creation of online quarterly Hindi progress report module has been completed and the quarterly Hindi progress reports from the circle/sub-circle offices are being obtained and reviewed online.

### **HINDI WORKSHOPS**

In order to encourage progressive use of Hindi in official work at least four workshops are organized throughout the year in all the offices of PESO. For effective implementation of Official Language policy, employees are advised to use simple and lucid Hindi language for their day-to-day work.

### **HINDI FORTNIGHT**

PESO, Nagpur along with all the circle and sub-circle office celebrated “Hindi Day” as well as “Hindi Fortnight” with great enthusiasm to increase the use of Official Language Hindi in the official work.

With a view to encourage officers/employees to do their official work in hindi, during “Hindi Fortnight” various competitions were organized, such as - Hindi Typing, Noting and Drafting, Essay writing, Handwriting competition, Shabdgyan, Logo Punch line competition and Antakshari. An exhibition of Hindi books was also arranged. “Hindi Day” was celebrated on 14<sup>th</sup> September 2013 with great enthusiasm. On this occasion Honable Home Minister’s message and the memorandum forwarded by the Ministry was read out for compliance. Winners of the competitions were awarded suitably.

## **INCENTIVE SCHEMES**

Annual Cash Prize Scheme for doing noting/drafting in Hindi, circulated by M/o Home Affairs, D/o Official Language is implemented in the organization. During the fortnight, various employees were awarded suitably under the scheme.

## **ACHIEVEMENTS**

### **O/o Chief Controller of Explosives, Nagpur:**

The O/o Chief Controller of Explosives, Nagpur received second prize for the year 2012-2013 for effective implementation of Official Language and special incentive prize for Hindi Magazine “Visphotak Darpan” Issue-12 by the Town Official Language Implementation Committee, Nagpur. Smt. Vaishali Cirde, Hindi officer, O/o Chief Controller of Explosives bagged an award for the Inter-office competition under the aegis of TOLIC, Nagpur titled “Mere karyalay mein Hindi Pakhwada aayojan ki sarthakta” (Power Point Presentation). Shri Mahendra Sayre, Stenographer Grade-2 received Second Prize for Unicode Typing Competition and Smt. Aarti Bhave, Junior Hindi Translator received consolation prize in “Ek akshari Chintan”.

### **O/o Jt. Chief Controller of Explosives, Central Circle, Agra**

- For the Year 2012-2013, the office of Joint Chief Controller of Explosives, Agra was awarded third prize, for their excellent performance in implementation of Official Language among all the Central Government offices at regional level in Northern Region-2 (Uttar Pradesh and Uttarakhand). Dr. Karunamay Pandey, Controller of Explosives received the shield and a citation by the hands of the Chief Guest His Excellency the Governor Shri Shivraj Patil at the Regional Official Language Awards Conference held at Chandigarh on 31.03.2014.

### **O/o Jt. Chief Controller of Explosives, North Circle, Faridabad**

- Government of India, Department of Official Language, Ministry of Home Affairs had organized ‘Rajbhasha Sammelan’ on 06.05.2013 in the Central Scientific Instruments Organisation, Chandigarh. In this program, the Joint Chief Controller of Explosives, North Circle, Faridabad was awarded third prize for their excellent performance in the implementation of Official Language Policy of the Union for the year 2011-12 amongst the the Central Government in the offices of 'A' region (Delhi, Himachal Pradesh and Haryana).

The attached and subordinate offices continued their endeavor towards ensuring effective implementation of various provisions of the Official Language Act and Rules to promote and progressively propagate the use of Official Language in their day-to-day working.

Thus Petroleum and Explosives Safety Organisation, is committed to its statutory responsibilities of Official Language.

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**INSPECTIONS OF LICENSED/APPROVED PREMISES**

In spite of severe resource constraints due to several vacant posts of officers in various grades, attempts were made to intensify inspection activities of hazardous premises licensed/approved by the Organization under various Acts & Rules made there under.

**UNDER EXPLOSIVES ACT, 1884:**

During the year, 29,935 premises (out of total 97,940 units licensed) were inspected. This amounts to inspection of 30.56% of the total premises. The inspected premises mentioned above include 12,399 Licensed premises under Explosives Rules, 2008; 8,079 Licensed premises under Gas Cylinder Rules; 9,325 licensed premises under SMPV (U) Rules and 132 licences premises under Ammonium Nitrate Rules, 2012.

**UNDER PETROLEUM ACT, 1934:**

During the year, 3,068 premises licensed were inspected, which amounts to about 1.95% of the total 1, 56,548 licensed premises. The above inspections include 3,056 premises licensed under Petroleum Rules, 2002 and 12 premises licenced under Calcium Carbide Rules, 1987.

In all out of 2,54,488 premises covered under various licenses and approvals granted by this Organization under various Acts & Rules, 33,003 premises (12.96%) were inspected during the year 2013-14. Statistical information about the premises licensed/approved under various Acts & Rules and inspections carried out thereof are given in Table-I. Details of cancellation, surrender, suspension, revocation of orders and issue of show cause notices are summarized in table II. Details of production of different types of explosives during the last 5 years are summarised in table III.

Wherever defects, irregularities or violations of rules and conditions of licence were observed during inspections, steps were taken by giving notice to the licensees for correction/compliance. In cases of serious violations that are likely to endanger safety, licenses were suspended or cancelled depending upon the nature of violation and seriousness of offence.

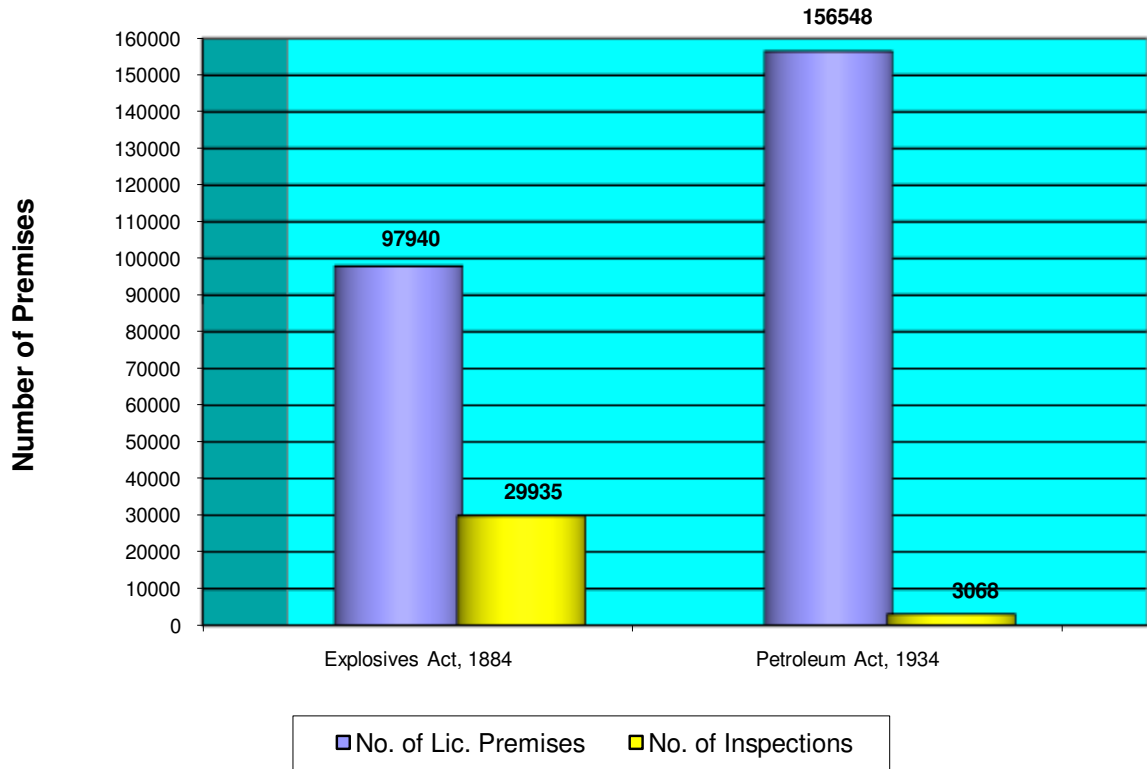
**Table – I****DETAILS OF INSPECTION CARRIED OUT DURING THE YEAR 2012-2013  
PREMISES COVERED UNDER LICENCE**

<b>Rules</b>	<b>As on 31.03.2013</b>	<b>Licensed in the year 2013-14</b>	<b>Total as on 31.03.14</b>	<b>No. of Inspections in the year 2013-14</b>
Ammonium Nitrate Rule, 2012	299	311	610	132
Explosives Rules, 2008	42423	339	42762	12399
Gas Cylinder Rules, 2004	25458	221	25679	8079
SMPV(U) Rules, 1981	27836	1053	28889	9325
Petroleum Rules, 2002	155323	795	156118	3056
Calcium Carbide Rules, 1987	429	01	430	12
<b>Total</b>	<b>251768</b>	<b>2720</b>	<b>254488</b>	<b>33003</b>

**Table II****DETAILS OF CANCELLATION, SURRENDER, SUSPENSIONS AND REVOKATION  
CARRIED OUT DURING THE YEAR 2013-2014**

<b>Sr. No</b>	<b>RULES</b>	<b>Cancellation of licence</b>	<b>Surrender of licence</b>	<b>Interim suspension of licence</b>	<b>Suspension</b>	<b>Revokation</b>	<b>Show cause notice</b>
1	Ammonium Nitrate Rule, 2012	11	02	00	00	00	00
2	Explosives Rules, 2008	223	230	11	79	124	207
3	Gas Cylinder Rules, 2004	19	32	00	14	30	80
4	SMPV(U) Rules, 1981	597	1636	00	15	25	10
5	Petroleum Rules, 2002	263	902	00	66	00	00
6	Calcium Carbide Rules, 1987	00	00	00	00	00	00
	<b>Total</b>	<b>1113</b>	<b>2802</b>	<b>11</b>	<b>175</b>	<b>179</b>	<b>297</b>

**Chart showing the number of Licensed Premises and number of Inspection carried out during 2013-2014**





**Table - III**  
**Production of different types of explosives during last 5 years**

<b>Description</b>	<b>Annual Installed Licenced capacity(MT)</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	<b>2013-14</b>
<b>Class 1</b> Gun Powder (Metric Tonnes)	1595.55	827.5	688.6	710.6	577.7	549
<b>Class 2</b> (a) Cartridges (b) Site Mixed (Metric Tonnes)	580386.5 1350385	225615.2 389825.7	183533.7 359943.5	238193 483828	267275 495946	269999 521419
<b>Class 3</b> Div-2 Booster and PETN* (Metric Tonnes)	16418.67	4449.3	3573.8	5063.1	5656.5	6186
<b>Class 6</b> Div 1 Safety Fuse (Million meters)	268.29	123.1	77	81.1	77.1	75
<b>Class 6</b> Div 2 Detonating fuse (Million mtrs)	576.2	390.6	284.6	370.6	649.0	428
<b>Class 6</b> Div 3 Detonators (million no.)	974	697.5	724.2	970.7	992.2	1032

\*PETN- Penta Erythritol Tetra Nitrate

**ACCIDENT INVESTIGATION DURING THE PERIOD 2013 -2014**

**SOUTH CIRCLE, CHENNAI**

**A. Under Explosives Act, 1884**

**Explosives Rules 2008**

1. Date: 04/03/2014 Place: Kancheepuram (Tamil Nadu).  
Killed: 6 Injured: 3

A massive fire followed by explosion occurred in a fireworks manufacturing unit. The fire initiated from a manufacturing shed and spread to the nearby area. Decomposition of fireworks chemical composition was the probable cause of accident.

2. Date: 26/04/2013 Place: Sivakasi (Tamil Nadu).  
Killed: 3 Injured: Nil

A massive fire followed by explosion occurred in a fireworks manufacturing unit. Decomposition of fireworks chemical composition was the probable cause of accident.

3. Date: 28/04/2013 Place: Sivakasi (Tamil Nadu).  
Killed: 8 Injured: 4

Devastating fire followed by explosion took place in an unauthorized place during the manufacturing of pallets of crackling composition with the help of an unauthorized coating machine. Investigation revealed that friction between iron sheet and the sensitive crackling composition containing chlorate and lead stucked on the surface of the sheet was the suspected cause of accident.

4. Date: 25/04/2013 Place: Village Kukatpalli, District Rangareddy (A.P.).  
Killed: 2 Injured: Nil

An explosion took place in a detonating fuse manufacturing building. The accidental fall of heavy spool containing semi finished detonating fuse while loading the spool for PVC coating leading to massive impact might be the probable cause of the accident.

5. Date: 08/12/2013 Place: Village Sivanigudem, District Nalgonda (A.P.).  
Killed: 2 Injured: Nil

An explosion took place in a PETN drying building while handling the PETN during drying process. The probable cause of accident was the excess drying (Bone drying) of PETN leading to detonation.

6. Date: 29/12/2013 Place: Village Pattazhy, District Kollam (Kerala).  
Killed: 2 Injured: 1

Fire followed by explosion took place in an unauthorized fireworks manufacturing unit. It is believed that highly sensitive chemical composition might have ignited due to use of some unauthorized implements during the manufacturing.

7. Date: 18/01/2014 Place: Village Kanjoor, District Ernakulam (Kerala).  
Killed: 2 Injured: Nil

Explosion in local made unauthorized fireworks called 'Gundu' took place due to accidental fall of the Gundu close to the gathering resulting in casualties.

8. Date: 19/01/2014 Place: Village Kanjoor, District Ernakulam.  
Killed: Nil Injured: 24

Explosion in local made unauthorized fireworks called 'Gundu' took place due to accidental falloff the gundu close to the gathering resulting in injuries to spectators.

#### **UNDER SMPV (U) Rules, 1981**

1. Date: 09/04/2013 Place: Village Namakkal (Tamil Nadu).  
Killed: 8 Injured: 4

A massive fire accident took place due to toppling of LPG road tanker while negotiating a sharp curve. The driver lost control over the vehicle resulting in accident. The vessel got punctured in the accident and leakage of LPG took place. Leaked LPG caught fire. The probable cause of the accident appears ignition of LPG-air mixed vapours through spark generated due to friction of the vehicle from hard surface.

2. Date: 14/01/2014 Place: Village Killiassery, District Kannur (Kerala).  
Killed: Nil Injured: 2

A fire accident occurred in a LPG road tanker due to leakage of LPG. It was observed that the LPG tanker hit the electric pole and overturned while negotiating sharp curve. The pressure gauge got sheared off from the vessel and LPG started leaking. The leaked LPG-air mixture caught fire. The probable cause of the fire accident appears ignition of the LPG-air mixture due to contact with overhead electric line.

3. Date: 17/03/2014 Village Thottipal, District Thrissur (Kerala).  
Killed: 4 Injured: 14

An explosion followed by massive fire accident took place due to explosion of a small unauthorized LPG cylinder in a congested residential house where some workers were involved in soldering work of jewellery items by using flame from LPG cylinder. It is believed that spurious cylinder used for filling of LPG was the cause of explosion.

4. Date: 29/03/2014 Place: Village West Hill, District Calicut (Kerala)  
Killed: 1 Injured: Nil

An accident took place due to sideways overturn of a LPG road tanker while negotiating S-turn. The tanker fell over a parked auto-rickshaw and killed the auto-rickshaw driver. The roto-gauge of the tanker got damaged in the accident leading to leakage of LPG.

#### **B. Under Petroleum Act, 1934**

##### **Under Petroleum Rules, 2002**

1. Date: 03/06/2014 Place: Village Mangalore, District Dakshin Kannada (Karnataka)  
Killed: 8 Injured: 4

A fire accident occurred in heavy Naphtha reflux line of crude distillation unit. Leakage of heavy naphtha was observed in the naphtha reflux line. The insulation of naphtha reflux line soaked the leaked naphtha and resulted in fire accident. .

2. Date: 23/08/2013 Place: Village Visakhapatnam, District Visakhapatnam (A.P.)  
Killed: 37 Injured: Nil

An fire accident took place in the cooling water tower (under expansion) while trial run was being carried out in one of the sump. Trial run was being carried out by connecting the main cooling water header. Large number of workers were allowed inside the adjacent sumps of same cooling water tower, where welding/ cutting was being carried out for setting the cooling water bafflers. Hydrocarbon vapour emanated from the splashed cooling water caught fire engulfing the entire cooling water tower. Cooling water tower collapsed. While burning wooden bafflers fell in the sumps killing 37 workers within the sumps. They could not escape out of from more than four meters deep sump. Non adherence to standard operating procedure and poor planning resulted huge number of casualties.

3. Date: 16/10/2013 Place: Village Ambalamugal, District Ernakulam (Kerala)  
Killed: Nil Injured: Nil

Fire erupted in the rim seal area of crude oil tank. Investigation revealed that fire occurred due to lightning strike.

##### **District Magistrate licence premises:**

1. Date: 15/05/2013 Place: Village Sivakasi (T.N.).  
Killed: 4 Injured: 18

Explosion followed by fire accident occurred in a fireworks manufacturing unit. Investigation revealed that explosion took place in white powder composition while sieving the white powder composition with an unauthorised sieve. The friction between the iron nails of sieve and sensitive chemical composition might be cause of the said accident.

2. Date: 27/05/2013 Place: Village Keelathiruthangal District Virudhunagar (T.N.)  
Killed: 3 Injured: Nil

Fire/explosion took place in a fireworks manufacturing unit. Investigation revealed that strike of lightning during the manufacturing of fireworks might be the cause of the accident.

3. Date: 24/09/2013 Place: Village Madurai District Madurai (T.N.)  
Killed: 4 Injured: 18

Fire/explosion took place in a fireworks manufacturing unit. Accident investigation revealed that generation of spark due to use of iron tools or use of chlorate composition (as revealed by FSL in chemical analysis report) was the probable cause of accident.

4. Date: 01/11/2013 Place: Village Tanjavur District Tanjavur (T.N.)  
Killed: 9 Injured: 4

Fire/explosion took place in a fireworks manufacturing unit. Preliminary accident investigation revealed that unsafe working conditions and unsafe act of workers involving fireworks chemical composition might have contributed to the accident.

## **WEST CIRCLE, MUMBAI**

### **A. Under Explosives Act, 1884**

#### **Explosives Rules 2008**

1. Date: 15/04/2013      Place: Pathardi-Taluka, district: Ahmednagar (MS).  
Killed: 2                      Injured: Nil

Explosion followed by fire accident occurred in a fireworks manufacturing unit while handling fireworks composition containing chlorate. Impact to sensitive chemical composition containing chlorate might be the cause of the accident.

2. Date: 12/05/2013      Place: Talegaon (S.P) Distt. Wardha (MS).  
Killed – 1      Injured – 1

An explosion occurred in tumbling barrel in a filling and pressing building of detonator manufacturing unit. Electrostatic discharge of sufficient energy could have ignited the air-mineral turpentine oil-vapour mixture and or ASA on the chute of tumbling unit resulting in explosion of filled shells present in the tumbler.

3. Date: 19/11/2013      Place – Gondkhairy      Distt. Nagpur, Maharashtra  
Killed – Nil                      Injured – 01

A fire/explosion took place during sieving operation of Gun Powder in a safety fuse manufacturing unit. On the day of incident, one sieving machine, which was under breakdown for almost one year, was repaired and put on services. The most likely cause of fire and explosion was ignition of residual gun powder on the sieve of the machine or in its vicinity due to generation of spark from the electric motor of the machine.

#### **District Magistrate licence premises**

4. Date: 27/02/2014      Place: village- Karmarle, Taluka - Alibagh, Dist Raigad (MS)  
Killed : 8                      Injured : 16

Unsafe working conditions and unsafe practice in manufacturing of fireworks resulted an accident. Raw material such as Potassium Nitrate, Sulphur and Aluminium Powder stocked more than the capacity in unsafe manner might be the cause of the accident

#### **Petroleum Rules, 2002**

- 1) Date: 08/04/2013                      Place: Chandrapur Distt. Chandrapur (MS)  
Killed – Nil      Injured – One

A fire accident occurred in a petroleum service station involving petroleum road tanker while unloading motor spirit in an underground tank. Accident investigation revealed

that due to electrostatic discharge ignition of petroleum-air mixture accumulated near the discharge faucet might be the probable cause of accident.

- 2) Date: 10/05/2013                      Place: Hiwari Nagar, District Nagpur (MS)  
Killed – 01                      Injured – 01

A fire accident took place in a petroleum installation while unloading the kerosene from petroleum road tanker. Accident investigation revealed that due to electrostatic discharge ignition of petroleum-air mixture accumulated near the discharge faucet might be the probable cause of accident.

- 3) Date: 11/06/2013                      Place: Village. Vadinar, Distrit. Jamnagar (Gujarat)  
Killed- Nil                      Injured- Nil

A fire accident took place on rim seal of double deck floating roof tank in a petroleum installation. No substantial loss of petroleum was reported. Partial damages to the periphery of rim seal of double deck floating roof of tank have taken place. The probable cause of the accident was strike of lightning on the tank.

- 4) Date: 16/07/2013                      Place : Vadodara, District Vadodara (Gujarat)  
Killed – Nil                      Injured – 1

Fire/explosion occurred near drain sump of Flare Knock out Drum within Fluidized Catalytic Cracking Unit (FCCU) of a refinery. Accident investigation revealed that drain of petroleum took place in the open channel from Flare Knock out Drum resulting in fire.

- 5) Date: 28/12/2013                      Place: Anjar, Disrict Kutch (Gujarat)  
Killed – Nil                      Injured – Two

A fire accident occurred in a petroleum service station involving petroleum road tanker while unloading motor spirit in an underground tank. Accident investigation revealed that ignition of petroleum-air mixture accumulated near the earthing clamp took place due to electrostatic discharge.

- 6) Date: 17/01/2014                      Place : Dadra, District Silvassa (D & NH)  
Killed – 08                      Injured – Nil

A fire accident occurred while transferring class 'A' petroleum from metal barrel to plastic container. The escaped petroleum vapours got ignited due to some unknown source of ignition.

- 7) Date: 27/02/2014                      Place: Vadinar, District Jamnagar (Gujarat)  
Killed – 02                      Injured – 01

There was a fire accident in the crude oil storage installation while rehabilitation work of 42 inch diameter tank inlet header pipeline for crude was in progress. During grinding of pipeline header for fitting of new fabricated pipe assembly, a flash fire appeared at the open end of pipeline header.

- 8) Date : 22/03/2014                      Place : Charoti Naka (Gujarat)  
Killed: 8                                      Injured: 10

Fire accidents took place in a petroleum tanker due to overturning and skid of the road tanker resulting in leakage of petroleum product. The spark generated due to friction between tanker and road ignited the petroleum-air mixture.

#### **Gas Cylinder Rules, 2004**

- 1) Date: 04/07/2013                      Place: Morshi, District Amravati (MS)  
Killed – 02                                      Injured – 23

A fire followed by explosion occurred in a residence while transferring the LPG from 14.2 kg domestic cylinder to locally fabricated cylinder with the help of liquid transfer pump. . Accident investigation revealed that LPG leaked out from the cylinder in the process of transfer and caught fire followed by explosion. The source of the ignition was the gas stove in the vicinity which was in use for cooking food at the time of transfer of LPG.

#### **SMPV(U) Rules, 1981**

- 1) Date : 18/06/2013                      Place : Village – Kasara, Shahapur (MS)  
Killed : 2                                      Injured : Nil

A fire accident took place involving LPG road tanker. It is investigated that the driver of road tanker lost the control over the vehicle and collided with a container resulting in damage of the pipeline of the LPG tanker and leakage of LPG. The leaked LPG caught fire. The probable source of ignition was generation of spark from a car stationed near the tanker.

- 2) Date: 27/12/2013                      Place – Bhilad, District Valsad (Gujarat)  
Killed – Two                                      Injured – One

A fire accident took place involving road tanker carrying Butadiene. It is investigated that a motorcycle rider came under the rear wheel of the tanker while overtaking the road tanker. The tanker ultimately overturned and its roto-gauge got damage and gave way to butadiene resulting in fire accident



## **CENTRAL CIRCLE, AGRA**

### **A. Under Explosives Act, 1884**

#### **Explosives Rules, 2008**

##### **District Magistrate premises**

1. Date: 11/05/2013                      Place: Unnao Gate, District Jhansi (UP)  
Killed-2                      Injured- Nil

An explosion took place in a fireworks manufacturing unit. The impact due to a heavy object on sensitive composition might be the cause of accident.

2. Date: 02/06/2013                      Place: Tappal, Aligarh, District Aligarh (UP)  
Killed-1                      Injured-6

An explosion took place in a fireworks manufacturing unit. The impact due to a heavy object on sensitive composition might be the cause of accident.

3. Date: 19/09/2013                      Place : Mohaan, Unnao District Unnao (UP)  
Killed – 8                      Injured – 2

An explosion took place in a fireworks manufacturing unit. It is investigated that sensitive banned composition containing Potassium chlorate and sulphur was being used for manufacturing of fireworks. The impact or friction on the sensitive composition might be the cause of accident.

4. Date: 22/09/2013                      Place: Hapur, District Hapur (UP)  
Killed-4                      Injured-2

An explosion took place in a fireworks manufacturing unit. It is revealed that the unauthorized fireworks composition was being used to manufacture fireworks. The impact or friction on sensitive composition might have caused the accident.

##### **Under Gas cylinder Rules, 2004**

1. Date: 07/12/2013                      Place: Sikandra, District. Agra (UP)  
Killed-1                      Injured- 2

An accident occurred when one oxygen cylinder fell from the hands of person while unloading the cylinder from the vehicle and it struck on the hard surface resulting bursting of cylinder.

### **Under SMPV (U) Rules, 1981**

1. Date: 04/05/2013      Place: Village Kharoli, District. Meerut (UP)  
Killed- Nil      Injured-62

An accident occurred due to leakage of ammonia from a storage vessel. The damage of pressure gauge due to accidental fall of iron beam over the storage vessel resulted leakage of ammonia from the vessel.

2. Date: 17/10/2013      Place: Mathura, District Mathura (UP)  
Killed-1      Injured- Nil

A fire accident occurred due to LPG leakage from a mobile LPG road tanker. The accumulated LPG in the low lying area got ignited. The probable source of fire was the kitchen of a nearby temple.

### **Under Petroleum Rules, 2002**

1. Date: 18/08/2013      Place: Mahuar, Kirawali, District Agra, Uttar Pradesh.  
Killed-5      Injured-1

A fire accident occurred when a tank truck loaded with inflammable petroleum liquid hit another truck parked on road side. The driver lost the control and hit the vehicle with an electric pole. One of the compartments of the tanker got ruptured in the accident and petroleum product leaked from the tanker. The live current carrying electric wire fell over the tanker resulting fire accident.

2. Date : 18/05/2013      Place: Khargone, District Khargone (M.P.)  
Killed- Nil      Injured - One

A fire accident occurred in a petroleum service station involving petroleum road tanker while unloading motor spirit in an underground tank. Accident investigation revealed that due to electrostatic discharge ignition of petroleum-air mixture accumulated near the discharge faucet might be the probable cause of accident.

3. Date: 14/05/2013      Place: Sadat, Gazipur Dist. Gazipur (U.P.)  
Killed- Nil      Injured -1

A fire accident occurred in a petroleum service station involving petroleum road tanker while unloading petroleum product. Accident investigation revealed that the tank was not electrically bonded to the earth while unloading petroleum, which led to fire accident. The probable cause of the accident might be discharge of static charge causing ignition of accumulated petroleum-air mixture.

## **NORTH CIRCLE, FARIDABAD**

### **A. Under Explosives Act, 1884**

#### **Under Gas Cylinders Rules 2004**

1. Date: 19/09/2013                      Place-Pandav Nagar, New Delhi  
Killed-Nil                                  Injured-02

A fire accident occurred in a LPG cylinder storage godown while illegally transferring the LPG to other cylinder by using improvised device. LPG leaked during this transfer and caught fire from unknown source of ignition.

#### **Under Petroleum Rules 2002**

1. Date: 08/04/2013                      Place: Bhatinda (Punjab)  
Killed: Nil                                  Injured-Nil

A fire accident took place in a sour water storage tank which was the part of SWS-II section of the Sulphur block. The probable cause of the accident was the ignitions of hydro carbons/hydro sulphide present in the tank. The probable source of ignition was heat of the incinerator.

2. Date: 12/04/2013                      Place: Jodhpur Distt, Jodhpur, (Rajasthan)  
Killed: Nil                                  Injured-01

A fire accident occurred in a petroleum service station involving petroleum road tanker while unloading petroleum product. The probable cause of the accident might be discharge of static charge causing ignition of petroleum-air mixture.

#### **Accident in unlicensed premises**

1. Date- 24/08/2013                      Place- Gurdaspur (Punjab)  
Killed 02                                  Injured-Nil

A fire accident took place while manufacturing fireworks. The friction or impact on sensitive fireworks composition appeared to be the cause of accident.

## **EAST CIRCLE, KOLKATA**

### **A. Under Explosives Act, 1884**

#### **Under Explosives Rules, 2008**

1. Date: 12/02/2014  
Killed – Nil                      Injured – Nil

Fire/explosion occurred in the explosives road van carrying class 2 explosives along with detonators which was heading towards open cast mine of M/s. MCL Ltd., Jharsuguda, Odisha. The electrical short circuiting leading to fire in the supply line and subsequently detonation due to fire was the probable cause of the accident.

#### **Under SMPV(U) Rules, 1981**

1. Date 24/7/2013                      Place: Lumbhong, East Jayantia Hill, Meghalaya.  
Killed- Nil                      Injured- Nil

LPG Road tanker carrying 7.2 MT LPG heading towards Bishalgarh Bottling Plant fell into a gorge at Lumshong, East Jayantial Hills, Tripura. Accident occurred as road was very narrow and driver might have lost control over the vehicle due to treacherous site condition.

2. Date 31/01/2014                      Place: Nagar Untari, Disrict Garhwa.  
Killed – Nil                      Injured – Nil

Chlorine leakage occurred from one of the chlorine tonner supplied by M/s. Aditya Birla Chemicals Ltd, Garhwa. Probable cause might be either presence of Nitrogen Trinchloride or hydrocarbon/organic material or ingress of moisture or over filling of tonner.

#### **Under Petroleum Rules, 2002**

1. Date 31/05/2013    Place: Numaligarh Refinery Limited-Numaligarh, Golaghat, Assam.  
Killed- Nil                      Injured- Nil

A fire accident occurred at crude booster pumps as crude booster pump casing sheared off in two parts at the suction side and impeller got cut off from the point of impeller-nut-locking with the shaft due to abrasion between impeller and the casing.

2. Date 03/08/2013    Place: M/s Guwahati Refinery, Emp. Co op Society Ltd, Guwahati  
Killed- Nil                      Injured- Nil

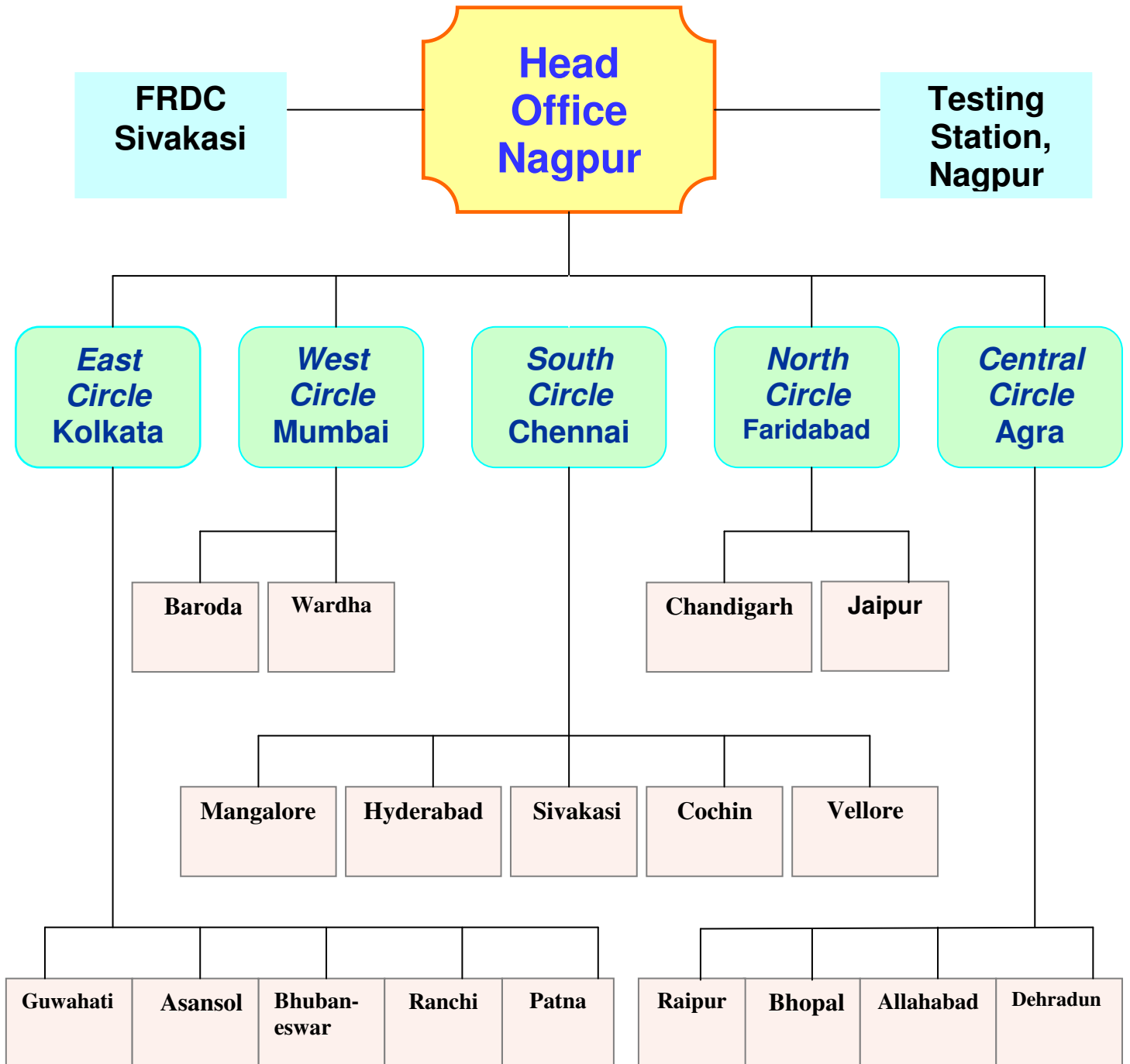
A fire accident occurred during unloading operations of Motor Sprit in underground tank. Probable cause might be ignition of accumulated petroleum-air mixture either from the spark generated from the exhaust of any vehicle or due to electrostatic discharge.

**Under GCR, 2004**

1. Date 30.9.2013                      Place: M/s. IOCL Bottling Plant, Guwahati, Kamrup  
Killed- Nil                      Injured -1

A Flash fire occurred due to generation of spark after impact of metal objects such as gun assembly and any other metallic object or VCM body, cylinder or conveyer chain etc.at valve changing machine in Cold repairing shed.

**ORGANIZATIONAL SETUP  
OF  
PETROLEUM AND EXPLOSIVES SAFETY ORGANIZATION (PESO)**



**ANNEXURE-II****JURISDICTION OF THE CIRCLE AND SUB-CIRCLE OFFICES OF THE PETROLEUM AND EXPLOSIVES SAFETY ORGANIZATION (PESO)**

Sr. No.	Name of Office/Circle/ Sub-Circle Offices	Address	Jurisdiction	Telephone/Fax Nos.
A	Head Office	E-mail: <a href="mailto:explosives@explosives.gov.in">explosives@explosives.gov.in</a> Web-site: <a href="http://peso.gov.in">http://peso.gov.in</a>		
01	<b>Nagpur</b>	Chief Controller of Explosives, Petroleum And Explosives Safety Organization Block "A", 5 <sup>th</sup> Floor, C.G.O. Complex, Seminary Hills, Nagpur 440 006(M.S.)	Whole India	STD Code (0712) 2510103, 2510580 2510459, 2510389 2510579, 2510579, 2512006, 2510072, 2512091, 2510139, 2512093, 2512094, 2511512, 2512257 EPABX No- 2510248 Fax No. -2510577
B.	West Circle	E-mail : <a href="mailto:jtccemumbai@explosives.gov.in">jtccemumbai@explosives.gov.in</a>		
01	<b>Navi Mumbai</b>	Joint Chief Controller of Explosives, A-1 & A-2 Wing, 5 <sup>th</sup> Floor, C.G.O. Complex, CBD Belapur, Navi- Mumbai 400614. (M.S.)	Gujrat, Washim, Hingoli, Akola, Parbhani, Maharashtra, Goa, Daman & Diu, Dadra & Nagar Haveli.	STD Code (022) 27564941(D) 27573881 EPABX No.- 27575946 Fax No.- 27575967
Sub-Circle Office				
02	<b>Baroda</b>	Dy. Chief Controller of Explosives, 8 <sup>th</sup> Floor, Yash Kamal Building Opposite MS Unmiversity Sayajigunj, Vadodara – 390020	Gujarat	STD Code (0265) 2361035, 2225159 Fax No.- 2225952
Factory Attached Office				
03	<b>Wardha</b>	Controller of Explosives, Plot NO 36 &37, Ward No 18, Rathi Layout, Rashtrabhasha Road, Wardha 442001 (M.S.)	Wardha, Yeotmal, Nanded, Gondia, Chandrapur, Gadchiroli, Bhandara Districts of Maharashtra	STD Code (07152) 245006 Fax No.- 230370
C.	East Circle	E-mail: <a href="mailto:jtceekolkata@explosives.gov.in">jtceekolkata@explosives.gov.in</a>		
01	<b>Kolkata</b>	The Joint Chief Controller of Explosives, 8 Explanade East, 1 <sup>st</sup>	West Bengal, Bihar, Orissa, Assam, Manipur,	STD Code (033) 22480427, 22486600,

		Floor, Kolkatta 700069 (W.B.)	Tripura, Arunachal Pradesh, Meghalaya, Mizoram, Sikkim, Nagaland, Andaman & Nicobar Islands	22489524, 22420686 Fax No.-22439322
Sub-Circle Office				
02.	<b>Asansol</b>	Dy. Chief Controller of Explosives, 93, S.B. Gorai Road, P.O. Asansol, Dist. Burdwan, 713301 (W. B.)	Districts of Burdwan, Bankura & Purulia (West Bengal)	STD Code (0341) 2283967 Fax No.- 2283834
Sub-Circle Office				
03.	<b>Guwahati</b>	Dy. Chief Controller of Explosives, GNB Road, Near Bhuyan Manson, 4 <sup>th</sup> Floor, Panchwati, Silpukhuri, Guwahati 781003 (Assam)	Assam, Sikkim Manipur, Tripura, Nagaland, Arunachal Pradesh, Meghalaya and Mizoram	STD Code (0361) 2662783 Fax No.-2662503
Sub-Circle Office				
04.	<b>Ranchi</b>	Dy. Chief Controller of Explosives, Sri Mohan Building, 'Sita Compound, 5, main Road, Behind Sushila Automobiles, Ranchi-834001 (Jharkhand)	Jharkhand	STD Code (0651) 2332689, 2332690 Fax No.-2332688
Sub-Circle Office				
05.	<b>Bhubaneswar</b>	Dy. Chief Controller of Explosives, F-35/A, BJB Nagar, Bhubaneswar-751014 District Khurda, Odisha	Odisha	STD Code (0674) 2433370, 2433390 Fax No.- 2430656
Sub-Circle Office				
06.	<b>Patna</b>	Controller of Explosives, 1 <sup>st</sup> Floor, Mahabir Complex, Adarsh Colony, Road No 2, Khemnichak, PO.O. New Jananpura, Patna-800027	Bihar	STD Code (0612) 2390914 Fax No.-2390913
D. South Circle E-mail: <a href="mailto:jtcechennai@explosives.gov.in">jtcechennai@explosives.gov.in</a>				
01.	<b>Chennai</b>	Jt Chief Controller of Explosives, A & D Wing, Block 1-8, II Floor, Shastri Bhawan, 26 Haddows Road,	Tamilnadu, Karnataka, Kerala, Andhra Pradesh, Pondichery & the Lakshdive Islands	STD Code (044) Tel:, 28515464, 28419529, 28429945-47, 28515464



		Chennai (T.N.), 600008		Fax No.- 28514848
Sub-Circle Office				
02.	<b>Ernakulam</b>	Dy. Chief Controller of Explosives, C2, 3 <sup>rd</sup> Floor, CGO Complex, Opp. CSEZ, Kakkanad, Ernakulam, Kochi-682037 (Kerala)	Kerala and Mahe in the Union Territory of Pondichery	STD Code (0484) Tel.: 2427286 Fax No.2427276
Sub-Circle Office				
03	<b>Mangalore</b>	Dy. Chief Controller of Explosives, 2 <sup>nd</sup> Floor, City Centre, Opposite Hotel Roopa, Balmatta Road, Mangalore-575001 (Karnataka)	Karnataka	STD Code (0824) 2420167, 2441588 Fax No.-2423937
Sub-Circle Office				
04.	<b>Sivakasi</b>	Dy. Chief Controller of Explosives, FRDC, Behind ESI Hospital, Sivakasi West, Sivakasi-626124 (T.N.)	Ramnathapuram, Madurai, Tirunelveli, Thanjaur, Theni Kanyakumari, Virudunagar, Tuticorin, Dindigal, Madurai, Dindigul Anna & Nagapptinam Districts of Tamil Nadu	STD Code (04562) 254353, 254253 Fax No.- 255233
05.	<b>Vellore</b>	Controller of Explosives, Plot NO A2/118, Door NO 3, 5 <sup>th</sup> East Cross Raod, Gandhi Nagar Town Panchyut, Katpadi Taluk, Vellore District 632006 (TN)	Vellore, Dharmapuri, Thiruvannamalai, Salem, Brode & Coimbatore Districts of T. N.	STD (0416) 2241642 Fax No.- 2242513
Sub-Circle Office				
06.	<b>Hyderabad</b>	Dy. Chief Controller of Explosives, Room NO 602, 6 <sup>th</sup> Floor, CGO Towers, Kavadiguda, Secunderabad- 500080	Andhra Pradesh, Yenam in the Union Territory of Pondichery	STD (040) 27540359, 27547863 Fax No. 27547803
E. Central Circle		E-mail: <a href="mailto:jtceagra@explosives.gov.in">jtceagra@explosives.gov.in</a>		
01.	<b>Agra</b>	Jt Chief Controller of Explosives, 63/4, A-Wing, 2 <sup>nd</sup> Floor, C.G.O.	Uttar Pradesh and Madhya Pradesh, Uttaranchal and	STD (0562) 2521322 2523244, 2523266

		Complex, Sanjay Palace, Agra- 282 002 (U.P)	Chattisgarh	Fax No.- 2527436
Sub-Circle Office				
02.	<b>Allahabad</b>	Dy. Chief Controller of Explosives Sector-1, Bhawan No 66, Lajpat Rai Road, Allahabad - 211001 (U.P)	Allahabad, Ambedkarnagar, Azamgarh, Bahraich, Balarampur, Ballia, Barabanki, Basti Bhadohi, Chandauli, Deoria, Faizabad, Ghazipur, Gonda, Gorakhpur, Hardoi, Jaunpur, Kabirnagar, Kushambi, Lakhimpur, Kheri, Lucknow, Mirzapur, Mau, Mahrajganj, Pratapgarh, Shravasti, Siddharth Nagar, Sitapur, Sonebhadra, Sultanpur, Varanasi Districts of Uttar Pradesh	STD (0532) 2250329, 2441491 Fax No.- 2644964
Sub-Circle Office				
03.	<b>Bhopal</b>	Dy. Chief Controller of Explosives, E-7/41, Ground Floor & 1 <sup>st</sup> Floor, Lala Lajpat Rai Society, Arera Colony, Bhopal -462016 (MP)	Madhya Pradesh	STD (0755) 2420775, 2445270 Fax No.- 2429997 Telegram: Explosives
Sub-Circle Office				
04.	<b>Dehradun</b>	Controller of Explosives, 421, Indira Nagar, Near Asian School, Dehradun- 248006, Uttarakhand.	Uttarakhand	STD (0135) 2769780 Fax No.-2769794
05.	<b>Raipur</b>	Controller of Explosives, Avanti Vihar Colony, main Road, Post Shankar Nagar, Raipur-492007. Chhattisgarh	Chhattisgarh	STD (0771) 2442204 Fax No.- 2442204

F. North Circle

E-mail: [jtccfaridabad@explosives.gov.in](mailto:jtccfaridabad@explosives.gov.in)

01.	<b>Faridabad</b>	Jt Chief Controller of Explosives, Hall No 502 & 507, Level-5, Block-B, Old CGO Complex, NH-4, Faridabad – 121001 (Haryana)	Delhi, Jammu & Kashmir, Himachal Pradesh, Haryana, Punjab & Rajasthan and Union Territory of Chandigarh	STD (0129) 2410730, 2410770, 2410732, 2410734, 2410731, 2421388 Fax No.- 2410733
Sub-Circle Office				
02.	<b>Chandigarh</b>	Dy. Chief Controller of Explosives, Shop cum office building, 1134/1135, Sector 22/B, Chandigarh - 160 002	Punjab, J & K Himachal Pradesh, Chandigarh	STD (0172) 2702586, 2727234 Fax No.- 2725839
Sub-Circle Office				
03..	<b>Jaipur</b>	Dy. Chief Controller of Explosives, Amrapali Marg, Near Power House, Vaishali Nagar, Jaipur 302021 (Raj.)	Rajasthan	STD (0141) 2356731, 2356781 Fax No.- 2350279

G. Testing Station

01.	<b>Gondkhairy</b>	Dy. Chief Controller of Explosives, Departmental Testing Station, 18 K.M. Stone, Amravati Road, Post Gondkhairy, Via Wadi, District:Nagpur-440023(M.S)	Nagpur, Amravati	STD (07104) 280374, 280305 Fax No.- 280565
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H. FRDC

01.	<b>Sivakasi (FRDC)</b>	Fireworks Research and Development Center Anaiyoor Village, Sivakasi West, District Virudhunagar –626124	-	STD ( 04562) 254402, Fax No.- 254404
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I. Pay & Accounts Office

01.	<b>Nagpur</b>	Pay & Accounts Officer, C.G.O. Complex, Block “C”, 1 <sup>st</sup> Floor, Seminary Hills, Nagpur 440 006 (M.S.)	-	STD ( 0712) 2510819 Fax No.- 2510819
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**SANCTIONED STRENGTH OF OFFICERS & STAFF  
OF THE ORGANIZATION**

		HO	DTS	FRDC	CHEN	KOL	FBD	Agra	MUM	Sub Circle offices	TOTAL
Sl.	Name of the post										
1	Chief Controller of Explosives	1	0	0	0	0	0	0	0	0	1
2	Jt. Chief Controller of Explosives	2	0	0	1	1	1	1	1	0	7
3	Dy. Chief Controller of Explosives	4	0	1	1	1	1	1	1	13	23
4	Controller of Explosives	6	1	1	5	4	4	4	5	16	46
5	Dy. Controller of Explosives	2	1	2	7	6	3	4	6	29	60
6	Accounts Officer	1	0	0	0	0	0	0	0	0	1
7	Administrative Officer	1	0	0	0	0	0	0	0	0	1
8	Private Secretary	1	0	0	0	0	0	0	0	0	1
9	Hindi Officer	1	0	0	0	0	0	0	0	0	1
10	Senior Technical Assistant	0	3	2	0	0	0	0	0	0	5
11	Senior Hindi Translator	1	0	0	0	0	0	0	0	0	1
12	Steno - I	4	0	0	1	1	1	1	2	0	10
13	Superintendent	4	0	0	3	3	3	3	3	0	19
14	Assistant	9	1	0	2	2	3	2	2	13	34
15	Lib. Assistant	1	0	0	0	0	0	0	0	0	1
16	Accountant	1	0	0	1	1	1	1	1	0	6
17	Upper Division Clerk	12	2	1	9	8	4	5	9	21	71
18	Lower Division Clerk	18	1	1	5	3	3	4	4	19	58
19	Steno-II	2	1	0	1	1	1	1	1	13	21
20	Steno-III	1	0	1	2	1	1	1	1	13	21
21	Jr. Technical Assistant	0	4	2	0	0	0	0	0	0	6
22	Jr. Hindi Translator	0	0	0	1	1	1	1	1	0	5
23	Driver	2	1	1	1	1	1	1	1	13	22
24	MTS/ Group D	10	5	4	5	5	4	5	5	16	59
	<b>TOTAL A+B &amp; C</b>	<b>84</b>	<b>20</b>	<b>16</b>	<b>45</b>	<b>39</b>	<b>32</b>	<b>35</b>	<b>43</b>	<b>166</b>	<b>480</b>

**ANNEXURE-IV****PRODUCTION OF EXPLOSIVES DURING THE YEAR 2013-2014**

<b>Sr No.</b>	<b>Explosives</b>	<b>Class</b>	<b>Quantity Metric Tonnes, Million Mtrs, Million Nos.</b>
1	Gun Powder	1 Div. 0	549
2	Nitrate Mixture	2 Div. 0	269999
3	SME	2 Div. 0	519878
4	PETN+Cast Booster	3 Div.2	6186
5	Safety Fuse	6 Div. 1	74
6	Detonator Fuse	6 Div. 2	427
8	Detonator	6 Div. 3	1031
10	Micro Cord	7 Div. 3	106261

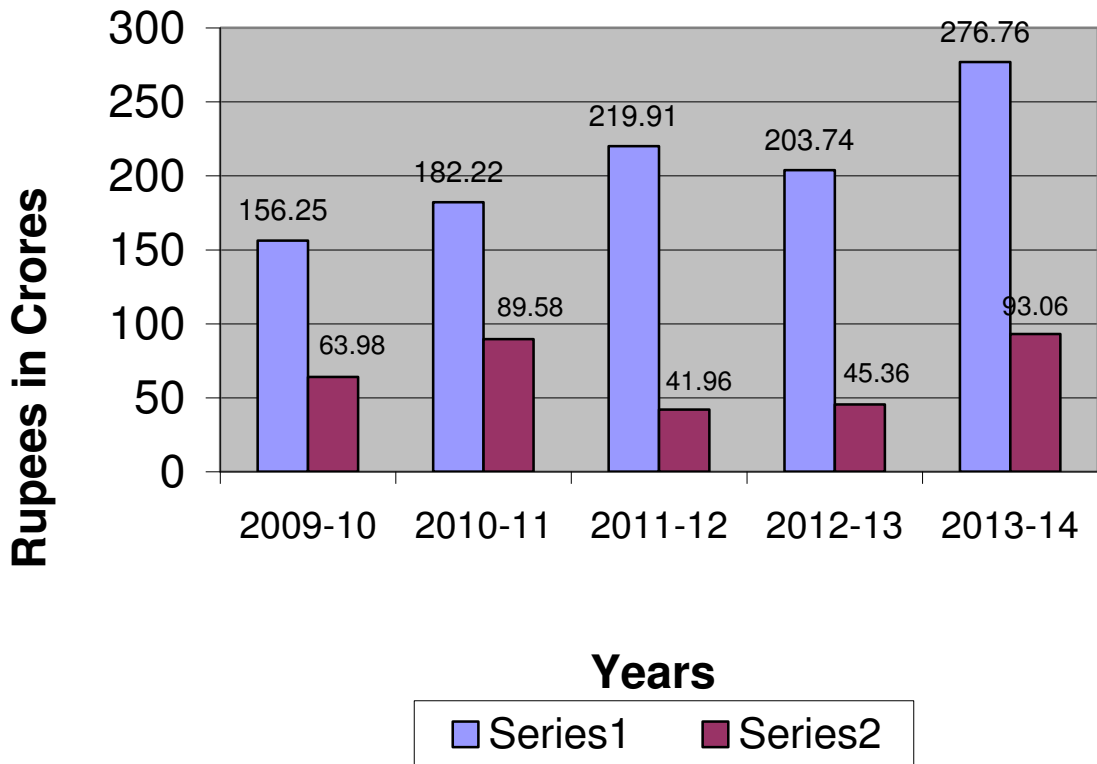
**IMPORT & EXPORT OF EXPLOSIVES****IMPORT**

During the year 2013-2014, 211 number of licenses were issued for importation of short delay detonators and specific type of explosives for use in exploration by Oil India Ltd., Cairn Energy India Ltd., BG Exploration & Production India Ltd., HLS Asia Ltd., Oil & Natural Gas Corporation Limited, Niko Resources Limited, Reliance Industries Limited, GeoEnpro Petroleum Limited, Great Eastern Energy Corporation Limited, Joshi Technologies International Inc., Schlumberger Asia Services Limited, Gujarat State Petroleum Corporation Limited, Electronics Corporation of India Limited, Indian Explosives Limited, Rajasthan Explosives & Chemicals Limited, Ideal Detonators Pvt. Ltd., Selan Exploration Technology Ltd., Focus Energy Ltd., Premier Explosives Ltd., OAO “Gasprom”, Premier Oil (North East India) BV, Essar Oil Ltd., and Marine Safety Products, A. S. Moloobhoy & Sons, SHM Shipcare for shipping signals (Pyrotechnics) and Srijan Systems Pvt. Ltd., for pyrotechnics scare cartridges (Anti Bird Devices) by use of Airports Authority of India and Air Force Stations. The value of explosives imported was Rs. 93.06 Crores.

**EXPORTS**

During the year 2013-14, 323 nos. of licenses were granted for exportation of explosives and value of explosives exported was worth Rs. 276.76 Crores.

### Export & Import of Explosives During Last Five Years



**ANNEXURE-VI****DESTRUCTION OF EXPLOSIVES DURING THE YEAR 2013-2014**

Class-1	407 kg.
Class-2	21343.912 kg.
Class-3 Div.2	94.9 kg.
Class 6 Div.1	15875.28 mtrs.
Class 6 Div.1 (nos)	1671 Nos.
Class 6 Div.2	280369.7 mtrs.
Class 6 Div.2 (nos)	1188 nos.
Class 6 Div.3	136805 nos.
Class 7 Div.2	2981.325 kg.
Class 7 Div.2 (2)	26050 Nos.



**PRODUCTION, IMPORT & EXPORT OF GAS CYLINDERS,  
VALVES & REGULATORS**

**GAS CYLINDERS & VALVES**

A Comparative statement of production of Cylinders, Valves & Regulators During 2011-2012, 2012-2013 & 2013-2014 is given below.

Sr. No.	Items Manufactured	Nos. Manufactured During		
		2011-12	2012-13	2013-14
01.	Welded load Carbon steel Gas Cylinders For			
	a. LPG	1,01,20,400	28,09,740	8,261,195
	b. Dissolved Acetylene Gas	6,750	1,680	398
	c. Other low pressure Liquefiable Gas	3,35,650	1,11,900	7037
	<b>Total (a + b + c)</b>	<b>1,04,62,800</b>	<b>29,23,320</b>	<b>82,68,630</b>
02.	Welded Large Containers for low pressure Liquefiable Gas	<b>37,740</b>	11,400	
03.	Seamless Steel Cylinders for Permanent & high pressure Liquefiable Gas	<b>7,58,856</b>	<b>9,15,566</b>	<b>690656</b>
04.	Valve for :			
	a. LPG Cylinders	<b>1,75,13,390</b>	65,11,640	3,09,84,685
	b. Other Gas Cylinders.	16,20,710	9,38,650	97,594
	<b>Total (a + b)</b>	<b>1,91,34,100</b>	<b>74,50,290</b>	<b>3,10,82,279</b>
05.	Low Pressure LPG Regulators.	57,70,000	41,20,300	93,91,814

## **IMPORT OF CYLINDERS**

A numbers of high purity permanent gases & gas mixtures are required to be imported duly filled in cylinders to meet the requirements of Trade & Industry. It is, therefore, becomes necessary to allow import of large numbers of cylinders from various Countries. During the year 2013-14, 772 licenses were granted to cover importation of 30,763 cylinders filled with various gases/ gas mixtures & 69,680 numbers empty Cylinders for filling with compressed gases including empty CNG cylinders for automobiles use.

## **EXPORT OF CYLINDERS**

A total of 2, 98,318 number filled cylinders were exported during the year 2013-14.

## **EXPORT OF VALVES & LPG REGULATORS**

A total of 1, 30,150 numbers of valves & 1,10,600 numbers of LPG Regulators were exported during the year 2013-14.

## **EXPORT OF COMPRESSED GAS FILLED IN CYLINDERS**

During the year 3,914 empty cylinders/containers were imported & re- exported duly filled with gas.

### **ANNEXURE-VIII**

#### **LIST OF MANUFACTURERS OF VALVES (Approved during 01.04.2013 to 31.03.2014)**

<b>Sr</b>	<b>Name and address of the Company</b>	<b>Gas Service</b>
1.		
	---- NIL---	

### **ANNEXURE-IX**

#### **LIST OF MANUFACTURERS OF LPG CYLINDERS (Approved during 01.04.2013 to 31.03.2014)**

<b>Sr. No.</b>	<b>Name and address of the Company</b>
1.	---- NIL---

#### **LIST OF MANUFACTURERS OF LPG REGULATORS (Approved during 01.04.2013 to 31.03.2014)**

<b>Sr. No.</b>	<b>Name and address of the Company</b>
1.	---- NIL---

**ANNEXURE-X****LIST OF MANUFACTURERS OF AUTO LPG CONTAINERS**

(Approved during 01.04.2013 to 31.03.2014)

Sr. No.	Name and address of the Company
1.	---- NIL---

**LIST OF MANUFACTURERS OF VALVE**

(Approved during 01.04.2013 to 31.03.2014)

Sr. No.	Name and address of the Company
1.	---- NIL---

**ANNEXURE-XI****LIST OF APPROVED PRESSURE VESSEL FABRICATOR**

(Approved during 01.04.2013 to 31.03.2014)

Sr. No.	Name and address of the Company
1.	M/s. Techno Process Equipments (India) Ltd., 2 <sup>nd</sup> Floor, Ashok Industrial Premises, LBS Marg, Bhandup West, Mumbai – 400 078
2	M/s. Vasant Fabricators Pvt. Ltd., 1 Panchal Estate, Sy.No. 8, Narasan Road, Chhapi – 385 210, Taluk Vadgam, Dist. Banaskantha. (Gujarat)
3	M/s. SKYLARK PRECITECH PRIVATE LIMITED, Plot NO. K-19, 20 & 21, Kupwad MIDC, Dist. Sangli – 416 436 MAHARASHTRA
4	M/s. RAJ ENGINEERING CO., (UNIT II) Plot No. H-1, Addl. Murbad Indl. Area, Village Kudvali, Murbad, Dist. Thane – 421 401
5	M/s. Cryostar Tanks & Vessels Pvt. Ltd., A-6/3, Jhilmil Indl. Area, Delhi – 110 095

**ANNEXURE – XII****SME/ANFO Licence Granted During 01/04/2013 to 31/03/2014**

Sr. No.	Name of Company	Licence NO.
1	---- NIL---	

**TESTING OF PETROLEUM VESSELS IN 2013-2014**

The Officers of the Organization issued **1682** gas free certificates during the year 2013-14 after testing oil tanks pump rooms etc. of petroleum tankers/vessels at Mumbai, Alang (Gujarat), Kolkata, Visakhapatnam, Mangalore, Chennai and Cochin ports.

Though tankers due for breaking by dismantling and cutting in Ship Breaking Yards are not petroleum carrying vessels, the Organization considering the hazards associated and safety of workers involved, has been extending its services for examination and testing such vessels for their gas free conditions for the purpose of Dock Entry and Man Entry and hot work. This has helped the ship breaking industry to grow and develop as the second largest such industry in the world.

**COURT ATTENDANCE:**

During the year 2013-14, officers of the Organization attended law courts on **76** occasions for tendering expert technical evidence in cases of prosecution under various sections of the Explosives Act 1884 and the Explosives Substance Act 1908.

**ANNEXURE-XIV**

**WORKING OF REFINERIES FOR THE PERIOD OF 01.04.2013 to 31.03.2014**

Sl. No	Name of Refinery	Crude Oil Processed	Installed capacity	LPG Produced	LPG Marketed	No. of Accident	EXPORT	
							Quantity (in MMT)	Value (in Crores)
		MMT	MMT	MMT	MMT			
1.	IOCL, Digboi	0.651232	0.65	0.008467	0	0	0	0
2.	IOCL, Panipat	15.0977	15	0.7355	0.7373	1	0	0
3.	IOCL, Guwahati	1.0190	1	0	0.0453	0	1.0731	3101.96
4.	IOCL, Barauni	6.4780	6	0	0.3187	0	0.8746	5208
5.	IOCL, Haldia	7.9520	7.5	0.3168	0.2392	0	0.5821	0
6.	IOCL, Vadodara	12.9589	13.7	0.2380	0.4893	1	0.3264	1968.9
7.	M/s. IOCL, Mathura	6.6404	8	0.4885	0.2107	2	0	0
8.	IOCL, Bongaigaon	2.3275	2.35	0.2099	0.04787	0	0	0
9.	HPCL, Mumbai	7.7387	6.5	0.04773	0.37830	3	0.31451	1370.40
10.	HPCL, Visakh	0.7772	8.3	0.37950	0.4230	10	0.3753	1546
11.	BPCL, Mumbai	0	12	0.4233	0	0	1.9006	9205.40
12.	Essar Oil Ltd.	20.202	20	0.4149	0.8049	0	7.6705	40673
13.	BPCL Kochi Refinery	10.2853	9.5	0.7996	0.5135	0	0.8672	3729.46
14.	CPCLtd., Cauvery Basin Refinery	0.559	1	0.5144	0.01783	1	0	0
15	CPCL, Manali	10.0649	10.5	0.01792	0.334846	15	1.1286	4711.03
16.	Numaligarh Refinery Ltd., Assam	2.6129	3.0	0.34856	0.05276	1	0.1268	701.08
17.	RIL Jamnagar SEZ Refinery Division	37.722	33	0.05335	1.011	0	33.794	190.972
18	DTA Refinery Division	30.305	33	1.011	0.664	0	14.405	76.332
19.	MRPLtd.	14.5464	15	0.2671	0.2641	1	06.7272	34012.425
20	Bharat Oman Refinery, Bina	00	6	0.1590	0.1625	0	0	0
21	HPCL Mittal Energy Ltd	9.27.14	9	0.7673	0.7768	1	0.4464	2453.20
22	ONGC Ltd, Tatipaka Refinery	0.065036	0.06	0	0	0	14404	86.6
	<b>Total</b>	<b>197.2746</b>	<b>221.06</b>	<b>7.864827</b>	<b>7.50552</b>	<b>36</b>	<b>14474.62</b>	<b>109035.5</b>

Total installed capacity = 197.2746 MMT

Total LPG produced = 7.8648 MMT

Total Crude oil processed = 221.06 MMT

Total LPG marketed = 7.5055 MMT