



# मानक सन्दर्भ नोट - 2014 STANDARD REFERENCE NOTE -2014



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Directorate General Factory Advice Service & Labour Institutes  
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# PREFACE

DGFASLI is the technical arm of the Ministry of Labour and Employment in matters related to Occupational Safety and Health in Factories, Ports and Docks. The organisation assists the Central Government in formulating policies in the administration of the Factories Act, 1948, enforces the Dock Workers (Safety, Health and Welfare) Act, 1986 and liaises with State Governments, Union Territories, Port authorities and Industries for effective implementation of these statutes.

**The Standard Reference Note 2014** provides comprehensive information on the objectives, functions, important activities and budget of the organisation. It contains details of studies/surveys, audits, support services, training programmes, promotional and other activities carried out by DGFASLI in its effort to prevent accidents and occupational diseases in Factories, Ports and Docks. This Standard Reference Note also contains information on targets and achievement of the Plan Schemes.

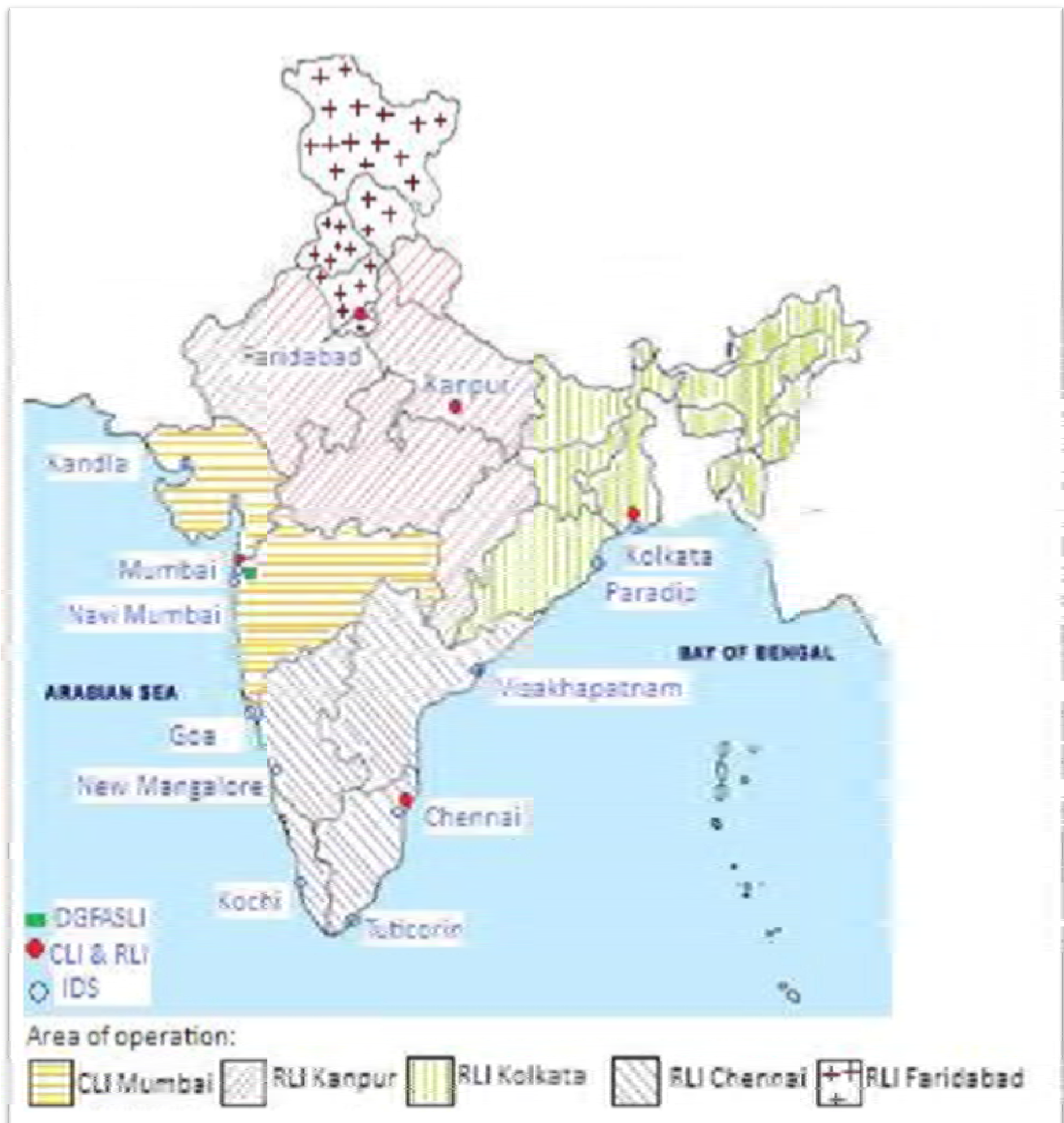
In addition to presenting the information on industrial injuries collected and analysed by Labour Bureau, this Standard Reference Note further contains the state-wise information relating to occupational safety and health in factories based on the information collected by DGFASLI from the Chief Inspectors of Factories. It also contains information on Safety and Health matters such as industrial injuries, safety inspection, investigation etc. in respect of 11 major ports. This compilation of data and its analysis reflects the trends, causes and areas of concern for preventing accidents and improving working environment in factories and ports.

Mumbai  
22<sup>nd</sup> January, 2016



(Dr. Avneesh Singh)  
Director General

# Location Map of DGFASLI Offices



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# 1

## General Information

### 1.1 DGFASLI- A Brief Introduction

The Directorate General of Factory Advice Service & Labour Institutes (DGFASLI), formerly known as Chief Adviser of Factories, was set up in 1945 in Delhi, with the objective of advising the Central and State Governments on administration of the Factories Act, and liaising with factories inspection services in the States. The office was subsequently shifted to Mumbai in 1966.

DGFASLI achieved significant importance as an attached office of the Ministry of Labour and Employment, Government of India serving as a technical arm to assist the Ministry in formulation of national policies on Occupational Safety and Health in Factories and Docks.

The Dock Workers (Safety, Health and Welfare) Act 1986 and the Regulations 1990 provide Safety, Health and Welfare of dock workers. These are enforced by DGFASLI through the Inspectorates of Dock Safety set up in all the major ports in India.

### 1.2 Functions of DGFASLI

- Rendering advice and carrying out support activities for the administration of the Factories Act, 1948 and the Dock Workers (Safety, Health and Welfare) Act, 1986.
- Co-ordinating technical and legal activities to facilitate uniform standards of enforcement of safety and health in manufacturing and port sectors.
- Administration of the Dock Workers (Safety, Health & Welfare) Act, 1986 and Regulations framed there under and enforcing these in the major ports of the country.
- Educating and training employers and employees on matters relating to safety and health.
- Conducting promotional activities by operating schemes for (i) recognition of good suggestions under Vishwakarma Rashtriya Puraskar (ii) worker's outstanding contribution in organizations, under Prime Minister's Shram Awards; and (iii) safety performance under National Safety Awards (on behalf of the Ministry).
- Co-operating with International agencies like ILO, WHO, UNDP and advising Central Government in the adoption of international standards concerning safety and health.
- Training of foreign nationals and rendering expert advice to the developing countries.
- Building competence of enforcement agencies.
- Issuing approval to flameproof electrical enclosures.
- Collecting and disseminating information and material relating to safety and health.

### 1.3 Organization Structure of DGFASLI

DGFASLI organization comprises of the Headquarters, Central Labour Institute, 4 Regional Labour Institutes and 11 Inspectorates of Dock Safety.

- Headquarters situated in Mumbai
- Central Labour Institute situated in Mumbai
- Regional Labour Institutes at Kolkata, Chennai, Kanpur and Faridabad. A new RLI at Shillong is being set up.
- Inspectorates of Dock Safety at Mumbai, Kolkata, Chennai, Kandla, Mormugao, Tuticorin, New Mangalore, Cochin, Visakhapatnam, Paradip and Jawaharlal Nehru Port. The Inspectorate of Dock Safety at Ennore is being setup.

In 1959, the Central Labour Institute, Mumbai was established under UNDP Project as a socio-economic laboratory and as a national institute dealing with scientific study of human aspects of industrial development. Subsequently, Regional Labour Institutes (RLIs) were established at Kolkata, Kanpur, Chennai and Faridabad to serve as Regional Centers. The detailed organisation structure is given in **Appendix I** and the contact addresses of Regional Labour Institutes (RLIs) and Inspectorate Dock Safety (IDSs) are shown in **Appendix II**.

The Central Labour Institute and Regional Labour Institutes are fully equipped with necessary laboratory facilities for conducting studies and surveys in the field of safety and health. The Institutes are also having conference facilities fully supported with modern audio-visual equipment. Industrial Safety, Health and Welfare Centers are also established at these Labour Institutes. Training Centers and Safety Exhibition Centers are also established in some of the inspectorates of dock safety.

### 1.4 Human Resource

The human-resource in the organisation comprises of Engineers, Medical Doctors, Industrial Hygienists, Industrial Physiologists, Industrial Psychologists, Statisticians, Audio-Visual Experts, and Artists etc. The manpower strength of the organisation is given in Table 1.1 & 1.2.

**Table 1.1- Manpower strength of DGFASLI organisation as on 1.1.2015**

Units	Technical		Administrative		Total	
	Sanctioned	In Position	Sanctioned	In Position	Sanctioned	In Position
Headquarters	11	7	46	38	57	45
CLI Mumbai	49	41	69	45	118	86
4 RLIs	61	39	80	39	141	78
11 IDSs	28	20	28	15	56	35
<b>Total</b>	<b>149</b>	<b>107</b>	<b>223</b>	<b>137</b>	<b>372</b>	<b>244</b>

**Table 1.2- Group wise Manpower strength of DGFASLI organisation as on 1.1.2015**

Group	Sanctioned	In Position
Group 'A'	91	58
Group 'B'	80	47
Group 'C' + MTS	91+110	72+67
<b>Total</b>	<b>372</b>	<b>244</b>

## 2 Budget

The allocation of funds for the various constituents and plan schemes of the organisation for 2014-15 and 2015-16 of the XII<sup>th</sup> Five year plan is given below:

(Rs. in Lakhs)

Sl. No.	SCHEMES	Revised Estimates 2014-15	Budget Estimates 2015-16
<b>A. NON-PLAN</b>			
1.	DGFASLI & IDS	714.70	808.75
2.	Research & Training (CLI & RLIs)	1175.30	1254.25
<b>Total (NON-PLAN)</b>		<b>1890.00</b>	<b>2063.00</b>
<b>B. PLAN</b>			
1.	Development of Regional Labour Institute, Faridabad as National Centre of Excellence	300.00	214.50
2.	Strengthening of DGFASLI Organisation and OSH in Factories, Ports and Docks	400.00	258.00
3.	Development of RLI, Shillong	10.00	4.50
<b>Total (PLAN)</b>		<b>710.00</b>	<b>477.00</b>
<b>GRAND TOTAL (NON-PLAN)+ (PLAN)</b>		<b>2600.00</b>	<b>2540.00</b>



# 3

## Plan Schemes

During the FY 2013-2014, three Plan Schemes under the XII<sup>th</sup> Five Year Plan are taken up by DGFASLI for implementation, namely:

1. Development of Regional Labour Institute, Faridabad as National Centre of Excellence.
2. Strengthening of DGFASLI organization and OSH in Factories & Ports.
3. Development of Regional Labour Institute Shillong.

### 3.1 Plan Scheme I:

**Development of Regional Labour Institute, Faridabad as National Centre of Excellence.**

#### Objectives:

1. The objective of the Scheme is to develop Regional Labour Institute, Faridabad as an advanced center of Safety Systems to meet the specialized needs of MSMEs and Chemical Process Industry.
2. Development of Advance Training Center, Advance Research Center and Awareness Center for carrying out the technical activities of the Center of Excellence.
3. To develop wide spectrum Door-step Facility to impart knowledge, skills and develop awareness among the work-force and owner-managers of MSMEs.

**Table 3.1 Targets & Achievements (January to December 2014)**

Sl. No.	Activities	Targets	Achievements
1.	Creation of Posts	-	-
2.	Setting up of Centres / Laboratories	01	01
3.	Short & Long duration training programmes / In plant training programmes	08	08
4.	One year post Diploma Course in Industrial Safety for Safety Officers	01	01
5.	3 month course-Associate Fellow of Industrial Health (AFIH)	01	01
6.	One month specialized Training course	01	01
7.	Developing State wise OSH monitoring	-	-
8.	Training programme for small and medium enterprises	02	-
9.	Research/Studies / Surveys / Safety Audits	08	09
10.	National Seminars/ Conferences/ Workshops	02	07
11.	Publications	02	02
12.	Production of Video films	01	-
13.	Talks	-	08

### 3.2 Plan Scheme II:

#### Strengthening of DGFASLI Organization and OSH in Factories, Ports & Docks

##### Objectives:

To strengthen the infrastructure facilities at DGFASLI organization including Central Labour Institute at Mumbai & Regional Labour Institutes located at Chennai, Kanpur & Kolkata, and Inspectorates Dock Safety at the eleven major ports for improving occupational safety and health status of workers in factories, ports and docks throughout the country thereby contributing to prevention of occupational injuries and diseases.

**Table 3.2 Targets & Achievements (January to December 2014)**

Sl. No.	Activities	Targets	Achievement
1.	a) Development of National Inventory on OSH information and follow up	*	*
	b) Up gradation and development of databases	*	11
	c) Development of Application Programmes	*	01
	d) Material Safety Data Sheet (MSDS) on request	*	08
	e) Industry-wise safety and health information	*	88
	f) INDOSHNEWS Publication	04	03
	g) Publication of Manuals, brochures, etc	*	57
2.	Conduction of specialized training programmes, seminars, workshops		21
3.	Conduction of studies/surveys/audits		05
4.	Enforcement activities in major ports (inspection of ships, container ship, loose gears, docks, container yards, hazardous installations, etc.)	1500	1733
5.	Testing of Respiratory & Non Respiratory PPE	780	783

\* Cannot be quantified

**3.3 Plan Scheme –III:****Development of Regional Labour Institute Shillong****Objective:**

The objective of the scheme is to cater to the needs of the North-Eastern Region in the areas of Occupational, Safety & Health which at present, due to the heavy workload of the Regional Labour Institute, Kolkata, are not effectively met.

**Table 3.3 - Targets and Achievements (January to December 2014)**

Sl. No.	Activity	Targets	Achievement
1.	Approval of SFC Proposal	*	Plan Scheme approved vide ministry's letter No. Y-11011/01/2012-ISH-I dtd. 20.08.2014.
2.	Acquiring Land	*	Letter sent to MOL&E regarding "Deed of Lease Agreement "on 29.10.2014.  Transfer of land by the Meghalaya Government is under active consideration. Labour Department, Meghalaya has referred the matter to Land Revenue Department for fixing the lease rate and preparation of the deed for transfer of land to DGFASLI, Mumbai for Setting up of RLI, Shillong.
3.	Getting architectural design from CPWD and getting cost estimate	*	CPWD proposal for construction of Institute-cum-Hostel building and boundary wall have been sent to MoLE for approval.
4.	Start of Construction Work	*	--

\* Cannot be quantified

# 4

## Safety & Health Improvement in Factories, Docks and Construction

### 4.1 Co-ordination in the Administration of the Factories Act, 1948

The Factories Act, 1948 is the principal and comprehensive legislation of the Parliament, which provides for the requirements concerning safety, health and welfare amenities needed by workers employed in factories. The provisions of the Act are applicable to the factories as defined under Section 2m (i), 2m (ii) or notified under Section 85 of the Act by the State Governments.

The Ministry of Labour and Employment is accountable to the Parliament for proper enforcement of the Act. Uniformity in the application of the provisions of the Act in the State/Union Territories is achieved by circulating the Model Rules prepared by DGFASLI, which are incorporated by states in their State Factories Rules with necessary modifications to suit local needs. In the task of framing of the Model Rules, the DGFASLI, on behalf of the Ministry of Labour and Employment, enlists the cooperation and involvement of the State Governments by convening annually a Conference of Chief Inspectors of Factories. The Conference discusses all matters relating to the administration of the Act as well as proposed amendments. Besides, the Conference also serves as a forum for discussion on the progress made in the application of techniques and methods for prevention of accidents and ill-health in factories.

### 4.2 During the year 2014 comments/clarifications / replies/ materials were prepared on the following matters -

Table-4.1

Sl. No.	Comments/ Clarifications / Replies/ Materials	Nos.
1.	Matters regarding Factories Act,1948	9
2.	Matters regarding ILO Conventions/ILO meetings	6
3.	Matters relating to Parliament Questions and Parliamentary Standing Committee on Labour Meetings	44
4.	Matters regarding Court Cases	5
5.	Other Important Matters	31

### 4.3 The 53<sup>rd</sup> Conference of Chief Inspectors of Factories

The 53<sup>rd</sup> All India Conference of Chief Inspectors of Factories was inaugurated by Shri Hasan Mushrif, the Hon'ble Minister for Labour and Special Assistance, Govt. of Maharashtra in the presence of Shri Rajendra Gavit, the Hon'ble Minister for Tribal Development, Labour and Command Area Development, Govt. of Maharashtra on 25th June, 2014 at Yashwant Rao Chavan Pratishthan, Mumbai.

The three-day Conference from 25th to 27th June, 2014 was organized jointly by the Directorate General Factory Advice Service and Labour Institutes (DGFASLI), Govt. of India, Ministry of Labour and Employment and Directorate of Industrial Safety and Health (DISH), Govt. of Maharashtra.

The inaugural function of the three day Conference started with the welcome address by Shri Vilas S. Moray, Director, DISH, Govt. of Maharashtra. Shri S. B. Mathur, Director General, DGFASLI while appraising about the Conference and its significance expressed his gratitude towards the Govt. of Maharashtra and DISH, Maharashtra who always take a lead role in Occupational Safety and Health related matters in the State. He emphasized on the main issues which would be discussed in the Conference.



**Shri Hasan Mushrif, the Hon'ble Minister for Labour and Special Assistance, Govt. of Maharashtra inaugurates the 53<sup>rd</sup> Conference of Chief Inspectors of Factories at Mumbai.**



**Shri Hasan Mushrif, the Hon'ble Minister for Labour and Special Assistance, Govt. of Maharashtra delivering special address in the 53<sup>rd</sup> CIF Conference**

Shri Hasan Mushrif, the Hon'ble Minister for Labour and Special Assistance, Govt. of Maharashtra in his address expressed his happiness that the Conference is being organized in Mumbai, Maharashtra which is a leading industrial city in India. In his address he also stressed upon the importance of enforcing the Factories Act, 1948. He urged upon all the Chief Inspectors of Factories present to enforce safety measures and methodologies so that accidents in the factories are considerably brought down.

Shri Arvind Kumar, Principal Secretary (Labour) to the Govt. of Maharashtra in his key note address emphasized the importance of the Conference where views and ideas of Occupational Safety and Health are exchanged amongst the CIFs of various States which in turn will be best utilized while exercising their powers in ensuring safety of the workers. He also urged the CIFs to enforce law in the strictest form without compromising on quality. He also emphasized the need of the inspectors to also assume the role of mentors whenever necessary.

Shri Rajendra Gavit, the Hon'ble Minister for Tribal Development, Labour and Command Area Development, Govt. of Maharashtra congratulated one and all responsible for organizing this Conference in Mumbai. He also requested the organizers to hold the Conference in budding industrial cities of Maharashtra like Nagpur and Chandrapur etc. He emphasized on the need of enforcing not only safety aspect but also other welfare aspects like life insurance and mediclaim among the workers.

The inaugural function was concluded with the formal Vote of Thanks by Dr. Avneesh Singh, Deputy Director General, DGFASLI.



**Director General, DGFASLI and delegates from various states participating in the deliberations in the 53<sup>rd</sup> CIF Conference**

The concluding session of the Conference was held on 27th June, 2014. The Director General, DGFASLI thanked all the participants for the fruitful discussions for the last three days. He also made a special thanks to Shri V. S. Moray, Director, DISH, Maharashtra and his team for collaborating with DGFASLI in organizing this conference at Mumbai.

#### **4.4 Implementation of the Right to Information Act 2005**

- The enactment of Right to Information Act, 2005, is a gateway for the citizens to seek information under the control of Public Authority and promote transparency and accountability.
- DGFASLI being one of the Public Authorities, the C.P.I.O. of the organisation received a total no. of 101 applications during the period January to December, 2014. Out of which 62 applications were received under section 6(3) of the RTI Act (i.e. transferred from other public authority) and 39 applications were received directly. Besides, 09 applications were brought forward from the 3<sup>rd</sup> quarter of 2013 (Oct. – Dec., 2013).

- A total of 110 applications were considered during the year. Information was provided within the stipulated time frame to 102 applications and 08 applications were carried forward to next year.
- An amount of Rs. 960/- was received during the period as application fees and cost of providing information in material form.
- The Appellate Authority of DGFASLI received a total number of 13 appeals during the period. 12 appeals were disposed off within stipulated time frame and 01 appeal was carried forward to next year.

#### **4.5 Administration of the Dock Workers (Safety, Health and Welfare) Act, 1986 and Regulation framed there under and the Environment (Protection) Act, 1986 and Rules framed there under**

The Dock Workers (Safety, Health and Welfare), Act, 1986 and the Regulations 1990 framed there under cover safety, health and welfare aspects of all the workers engaged in dock work, whether in loading or unloading of cargo on board the ship, alongside it or in transit sheds, warehouses or yard etc., within the port premises including those engaged in chipping and painting of ships. These statutes are in line with ILO Convention No. 152 on Occupational Safety and Health (Dock Work).

Administration of the Act and the Regulations in major ports is carried out by the Ministry of Labour and Employment, through DGFASLI, Mumbai. The Director General is the Chief Inspector of Dock Safety appointed under the Act. The Chief Inspector of Dock Safety is also an authority for enforcement of the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 framed under the Environment (Protection) Act, 1986, in the major ports.

The above statutes are enforced by the Inspectors posted at Inspectorate of Dock Safety at all the major ports viz. Mumbai, Kolkata, Chennai, Kandla, Mormugao, New Mangalore, Cochin, Tuticorin, Visakhapatnam, Paradip and Jawaharlal Nehru Port except Ennore where the Inspectorate is yet to be set up. Presently, the enforcement in this Port is carried out by the Inspectors posted in Inspectorate Dock Safety, Chennai. Inspectors also enforce the Marking of Heavy Packages Act, 1951 and Rules framed there under in the major ports.

The main function of the Inspectorates is to ensure the compliance with the provisions under the statutes. The statutory responsibilities of Inspector include inspection of ships, tankers, loose-gears, container-handling equipment, docks, container-yard and terminal, hazardous installations and isolated storages, tanks; carrying out the investigation of accidents (fatal and serious) and dangerous occurrences; prosecution of employers, attending to complaints, providing advisory services and conducting safety promotional activities like training programmes, workshops, celebration of safety week etc. The Inspectorate also prosecutes the agency responsible for serious violation of any provision of the Act and Regulations framed there under.



#### 4.6 Important Development in Dock Safety

1. The Dock Safety Division organized the 12<sup>th</sup> Advisory Committee Meeting on 27<sup>th</sup> & 28<sup>th</sup> August, 2014 at Mumbai Port. The meeting was inaugurated by Shri S.B. Mathur, Director General and Chief Inspector of Dock Safety who is also the Chairman of the Advisory Committee. During the inauguration he explained the importance of OSH in Port Sector. Shri Jayachandran, FA&CAO, Mumbai Port Trust also delivered a special address. Shri B.L. Meena, Dy. Secretary, Ministry of Labour and Employment in his address stressed upon the need for inspection of facilities in the ports and also the need for emergency preparedness in the port sector. The inaugural function was attended by all the HODs of Mumbai Port Trust, Port Trustee, and Union Leaders etc. The Advisory Committee members representing employees, employers and senior officials from Ministry of Labour and Employment and Ministry of Shipping attended the meeting. The important issues like training and examination of private workers working in the port sector, amendment to Dock Safety Statutes etc. were discussed.



Dignitaries sitting on dais during 12th advisory committee held on 27th-28th August, 2014 at Mumbai Port

- The Dock safety Division organized and conducted the 29<sup>th</sup> Conference of Dock Safety Inspectors on 10<sup>th</sup> and 11<sup>th</sup> September, 2014 at JN Port. The Conference was inaugurated by Shri S.B. Mathur, Director General and Chief Inspector of Dock Safety. In the inaugural speech he appreciated the work done by the new Inspectors as well as the officials of the Headquarters. He also emphasized the need for thorough knowledge of other OSH statutes which will in turn enhance performance of the Inspectors in their day-to-day activities. All the Inspectors of the Inspectorates of Dock Safety attended the Conference. The Conference concluded on 11<sup>th</sup> September, 2014 with the Vote of Thanks delivered by Shri S.N. Borkar, Director (Safety) and In-charge Dock Safety Division.



**Participants of 29<sup>th</sup> Conference of Dock Safety Inspectors held on 10<sup>th</sup>-11<sup>th</sup> September, 2014 at J. N. Port, Navi Mumbai**

- Organised and conducted One Day Training Programme / Workshop on MSIHC Rules, 1989 and Inspection of MAH Installations in the port sector on 12.09.2014 at JN Port. All the Inspectors of the Dock Safety and invitees from J.N. Port attended the programme. The guest faculties from private terminals as well as the Regional Labour Institutes delivered talks on the subject. The programme concluded with Vote of Thanks by Shri S.N. Borkar, Director (Safety) and In-charge Dock Safety Division.
- Organised and conducted National Seminar on 'Training Need Assessment in Port Sector on 16.09.2014 at Central Labour Institute, Mumbai. Seminar was inaugurated by Shri S.N. Borkar, Director (Safety) and In-charge Dock Safety Division. The participants from major ports of India, private ports, private terminals and union representatives from all over India attended this seminar. The participants made the presentation on the topic followed by group discussion. Subsequently an Action Plan was drawn based on the various presentations made by the individual groups. The Seminar concluded with the Vote of Thanks delivered by Shri Manoj Kasulla, Addl. Asst. Director (Safety), DGFASLI.

#### 4.7 Safety Week Celebrations for Dock Safety

During the year 2014 Safety Week Celebrations were held at the Ports of Mumbai, Kolkata, Visakhapatnam, Kochi, New Mangalore, J. N. Port, and Tuticorin. Total 04 Week Celebrations were held during the year. During the celebrations, various safety promotional activities like safety poster competitions, safety quiz contest, first-aid and fire fighting demonstrations and appreciation programmes were organized for benefit of dock workers and their families.

#### 4.8 Safety and Health in Construction Sector

The Building and Other Construction Workers Act (BOCW Act) (Regulation of Employment and Conditions of Service) was enacted in 1996. The Central Government is the appropriate government for notifying the rules and regulations under the Act as well as the enforcement of the provisions under the said Rules, in respect of establishments in relation to which Central Government is the appropriate government under the Industrial Disputes Act, 1947. In respect of other establishments, the State Government is the appropriate government for notifying the Rules and enforcing the provisions. DGFASLI at the behest of the Ministry of Labour and Employment had done the entire work of drafting the above said Act 1996 as well as framing of the Central Rules of 1998 made there under. The Director General, DGFASLI is a member on the Central Advisory Committee constituted under Rule 10 of the Central Rules of 1998. DGFASLI was entrusted with the task of processing applications in respect of approval of Competent Persons under Rule 2(j) of the Central Rules, 1998.

#### 4.9 Studies and Surveys

- (a) **National Studies and Surveys** are undertaken by DGFASLI, in its efforts towards helping the Central Government to ascertain the status of working conditions, safety and health in factories and docks, and to formulate the appropriate standards for inclusion in statutes.
- (b) **State level Studies and Surveys** are undertaken in the State in certain priority areas to ascertain status of Safety Health and Environment at work place.

**Table 4.2-Professional Interaction & Update Seminar (PIUS) 2014**

Sl. No.	Title	Date	Participants	Organisations
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**Table 4.3-National Level Studies and Surveys undertaken during 2014**

Sl. No.	National level Studies and Surveys	No. of Studies & Surveys(Completed)
1.	Safety and Health Survey under Section – 91A of the Factories Act, 1948 in respect of accident prone factories in the State of Odisha, M/s. Bhushan Steel Limited, Meramandali, Dhenkanal by RLI, Kolkata	3

**Table 4.4-State Level Studies and Surveys undertaken during 2014**

Sl. No.	State Level Studies and Surveys	No. of Studies & Surveys (Completed)
1.	Occupational Safety & Health Survey in SIDCUL and other Industrial Areas of the State of Uttarakhand M/s. Shivalik Rasayan Ltd., Kohlupani, Dehradun	19
2.	Study on OSH in a two wheeler Automobile Industry by RLI, Faridabad	1
3.	Safety Audit in a cement Industry by RLI, Faridabad	1
4.	Safety in material Handling by RLI, Faridabad	1
5.	Accident investigation at Bhilai Steel Plant, Chattisgarh (RLI, Kanpur)	1
6.	Joint Inspection with Directorate of Factories UP to ascertain the Safety standards at Construction site of Lalitpur Thermal Power Project, Jhansi. by RLI, Kanpur	1

- c) **Unit Level Consultancy Studies** are carried out at the request of the management and reports are submitted for implementation of the recommendations for further improvement in factories concerned.

**Table 4.5-Unit level consultancy studies and audits undertaken during 2014**

Sl. No.	Area/ Topic	No. of Consultancy Studies (Completed)
1.	Safety Audit	20
2.	Assessment of Airborne contaminants	9
3.	Evaluation of airborne chemical contaminants in the workplace environment	1
4.	Air Quality Test for Compressor	2
5.	MCLS Study by Dispersion modeling	1
6.	Training Need Assessment in Safety, Health & Environment	1
7.	Working conditions and Improvement in Higher Productivity at Workplace	2
8.	On-Site Emergency Plan and Risk Analysis Study	1
9.	A Safety and Occupational Health Survey conducted as per Sec. 91A of the Factories Act, 1948 Fireworks	1
10.	Risk Analysis Study	1
11.	Testing of the Breathing Air Quality of Compressor	5
12.	Industrial Hygiene Study	2
13.	Noise Study	4
14.	Work Environment Monitoring Study	1
<b>Total</b>		<b>51</b>

Table 4.6-Seminars conducted during 2014

Sl. No.	Title	Venue	Date	No. of Participants	No. of Organisations
1.	Implementation of NPSHE at Workplace-Issues & Challenges	RLI, Faridabad	10/02/2014	191	113
2.	Health and Safety aspects in various industries	RLI, Kanpur	11/03/2014	50	38
3.	National Seminar on Hazard Identification and Risk Assessment	RLI, Chennai	30/04/2014	260	180
4.	One day Seminar on "Sharing of Best Practices on Safety, Health and Environment at Workplace"	DGFASLI, Mumbai	28/04/2014	131	84
5.	Occupational Safety Health Management in Industries	RLI, Kanpur	07/05/2014	9	9
6.	Safety in Chemical & Petroleum Industries	RLI, Kolkata	18/08/2014	17	9
7.	National Seminar on "Occupational Safety & Health in Construction Industry"	RLI, Chennai	05/09/2014	250	165
8.	Seminar on Safety	RLI, Kanpur	30/10/2014	60	42
<b>Total</b>				<b>968</b>	<b>640</b>

**Table 4.7-Workshops conducted during 2014**

Sl. No.	Title	Venue	Date	No. of Participants	No. of Organisations
1.	Workshop on Safety Engineering & Management	RLI, Kanpur	29/01/2014	11	7
2.	Excellence in Occupational Safety & Health Awareness for Industrial Development in collaboration with the Inspectorate of Factories, Assam	Hotel Agneedeeep, Guwahati, Assam	03/01/2014	177	96
3.	Workshop on Working Conditions and Improvement in Higher Productivity At Work Place	Conference room of O/o CIF, Rajasthan, Jaipur	03/01/2014	81	30
4.	Workshop on "Asbestosis, Silicosis & ILO Radiograph on pneumoconiosis	RLI, Kolkata	27/01/2014	22	9
5.	Workshop on Working Conditions and Improvement in Higher Productivity At Work Place	G.I.D.C Conference Hall, Jamnagar, Gujarat	27/01/2014	47	18
6.	Training workshop on HAZOP	CLI, Mumbai	19/02/2014	25	13
7.	Workshop on "Dispersion Modelling & Impact Assessment of Major Toxic & Flammable Releases	CLI, Mumbai	09/04/2014	5	5
8.	Workshop on Silicosis Asbestosis & ILO Radiographs on Pneumoconiosis	CIF, Goa	04/04/2014	19	19
9.	Training Programme on Safe Handling of Chemicals for Safety Committee Members	CLI, Mumbai	07/05/2014	4	4
10.	Workshop on 'Internal Safety Audit'	CLI, Mumbai	27/05/2014	27	14
11.	Workshop for Safety Officer/Responsible Persons of Port Users	HDC Trg. Institute	18/06/2014	23	23
12.	One day Stakeholders Meet for Need Analysis on "Occupational Safety and Health in Construction Industries"	RLI, Chennai	22/07/2014	50	13

Sl. No.	Title	Venue	Date	No. of Participants	No. of Organisations
13.	Work shop on Safety and Health Management in Sugar Industry	RLI, Kanpur	23/07/2014	28	21
14.	Training Workshop on 'Internal Safety Audit'	CLI, Mumbai	12/08/2014	15	8
15.	Two day Workshop on "Occupational Health and Safety Management in Chemical Process Industries" in association with Cell for Industrial Safety and Risk Analysis (CSIRA)	CSIRA, Central Leather Research Institute	27/08/2014	37	36
16.	Workshop on Industrial Ventilation	CLI, Mumbai	22/09/2014	13	8
17.	Interactive Session on OSH with German Delegation	RLI, Faridabad	26/09/2014	85	63
18.	Workshop on Testing & Examination of Lifting Machinery, Tackles & Pressure Vessels	RLI, Kanpur	13/10/2014	27	7
19.	Workshop on Hazard Operability Study (HAZOP)	RLI, Kanpur	28/10/2014	14	11
20.	Workshop on 'Accident Reporting, Investigation & Analysis'	CLI, Mumbai	27/11/2014	34	9
21.	One day Workshop on "OSH Training Need Identification in Ferrous and Non-Ferrous Metals Industry and Paper Industry"	Regional Labour Institute, Kolkata	12/11/2014	60	33
22.	Workshop on Testing & Examination of Lifting Machinery, Tackles & Pressure Vessels	RLI, Kanpur	10/11/2014	21	12
23.	One day Workshop on CPR & AED First Aid Training for Industrial Safety Officers	RLI, Faridabad	18/11/2014	35	35
24.	Webinar Programme on Safety & Health in Industry for Safety Officers	RLI, Faridabad	17/11/2014	45	45
25.	Webinar Programme on Safety & Health in Chemical Industry for Safety Inspectors	RLI, Faridabad	21/11/2014	13	6
26.	Webinar Programme on Safety & Health in Industry for Supervisors	RLI, Faridabad	12/12/2014	12	8

Sl. No.	Title	Venue	Date	No. of Participants	No. of Organisations
27.	Webinar Programme on Safety & Health in Industry for Doctors	RLI, Faridabad	11/12/2014	15	11
28.	Innovative ideas in Occupational Safety & Health Awareness for Construction Workers by RLI, Kolkata on behalf of DGFASLI in collaboration with Meghalaya Building & Other Construction Workers Welfare Board, Shillong	Shillong Club Ltd., Shillong	09/12/2014	77	5
<b>Total</b>				<b>1022</b>	<b>569</b>



Table 4.8- 3 or more days Training Programmes conducted during 2014

Programme/ Area	No. of Programmes	No. of Participants	No. of Organisations
<b>A. Professional Programmes [Total:(a+ b +c)]</b>	<b>10</b>	<b>312</b>	<b>245</b>
a) ADIS	5	200	145
b) AFIH	2	54	50
c) One-month Certificate Course for Supervisory Personnel in hazardous processes Industries	3	58	50
<b>B. Specialised Training Programmes [ Total: (I +II + III +IV + V + VI)]</b>	<b>48</b>	<b>889</b>	<b>421</b>
<b>I. Programme for Inspectors of Factories [Total: (a+ b +c)]</b>	<b>4</b>	<b>48</b>	<b>33</b>
a) Basic course	--	--	--
b) Refresher Course	3	35	27
c) Chemical Safety	1	13	6
<b>II. Programme for Management Personnel [Total:(a to z)]</b>	<b>35</b>	<b>695</b>	<b>338</b>
a) Workshop on "Training Methodologies for Trainers in Safety, Health & Environment in Industries"	1	22	4
b) Training programme on "Ergonomics a Major Factor in Management of Safety, Health, and Productivity at Workplace	2	27	19
c) Workshop on Industrial Noise and Vibration	1	5	5
d) Workshop on "Productivity & Quality Improvement	1	32	2
e) Training Programme on Chemical Safety at workplace and Workshop on Hazard and Operatability Study	2	47	30
f) Impact of Environmental Pollutants and their control at work place`	1	20	11
g) Specialised Training Programme on 'Safety Management'	1	19	1
h) Team Building in Safety, Health & Environment	1	10	3
i) 3-days collaborative Training Programme with NSC Maharashtra Chapter on 'Safety Management'	3	62	36
j) 5-days Specialised Training Programme on "Industrial Safety" for officers of Indian Ord. Factories	1	12	1
k) Personal Growth and Group Dynamics for improving safety and health at Work place	1	21	5
l) Recognition & Evaluation of Chemical Hazard at workplace	1	12	6

Programme/ Area	No. of Programmes	No. of Participants	No. of Organisations
m) Making safety committee more effective	2	55	19
n) Training Programme on Safety in Storage, Handling and Management of Hazardous Substances in Process Industries	2	23	22
o) Management of Safety, Health & Environment at Workplace	1	19	7
p) US-DOL Training Programme on OSH in Maritime / Port Sector	2	37	9
q) Evaluation and Control of Environment at Workplace	1	16	7
r) Safety Audit in Factories, Ports & Construction Industries	3	56	40
s) Occupational Safety & Health in Construction Industries	1	21	10
t) Safety & Fire Fighting Management in Industries	1	30	16
u) Safety & Health Awareness programme for Members of Safety Committee	1	45	16
v) Safety for Productivity & Quality Improvement in Industries	1	16	5
w) Five day Certificate Course on "Occupational Safety"	1	26	26
x) Training programme on Major Accident Hazards in Industries for Inspectors of Factories	1	12	7
y) Training programme on Process Safety Management	1	29	19
z) Training programme on Safety and Law in the Power Generation Units	1	21	12
<b>III. Programme for Factory Supervisors [Total:(a to c)]</b>	<b>3</b>	<b>33</b>	<b>5</b>
a) Workshop on "Participative Skills for Safety Committee Members in SHE"	1	29	2
b) Environmental Hazard and their Management at the workplace	1	3	2
c) Orientation Training Programme on I.H. Techniques for the Chemist of Directorate of Industrial Safety and Health	1	1	1
<b>IV. Programme for Trade Union Leaders/Workers/Joint Participation [Total:(a to c)]</b>	<b>3</b>	<b>38</b>	<b>18</b>
a) PTP (Quality Improvement through Effective Employee Participation)	1	13	3
b) Workers Development programme on "Safety, Health and Environment" in Factories, Ports & Construction Projects.	1	15	10

Programme/ Area	No. of Programmes	No. of Participants	No. of Organisations
c) Three days training programme on Prevention & Control of Fire in Industries	1	10	5
<b>V. Programme for Educational Institutions [Total:(a+ b)]</b>	<b>3</b>	<b>75</b>	<b>27</b>
a) Workshop on Silicosis & ILO radiographs on pneumoconiosis	1	25	25
b) Industrial Safety for the students of Post Graduate Diploma in Human Resource Development & Labour Welfare of SLI, Kolkata, Govt. of W.B. in two batches	2	50	2
<b>VI. Programme for Dock Safety Inspectors</b>	--	--	--
<b>Grand Total: (A+B)</b>	<b>58</b>	<b>1201</b>	<b>666</b>

Table 4.9-Need based in- plant Training Programmes conducted during 2014

Programme/ Area	No. of Programmes	No. of Participants	No. of Organisations
<b>I. Programme for Management Personnel [Total:(a to i)]</b>	<b>10</b>	<b>365</b>	<b>10</b>
a) Occupational Health & Ergonomics	1	50	1
b) Making Safety Committee more Effective	2	42	2
c) Behaviour Based Safety	1	23	1
d) Hazard Identification & Risk Analysis and Legal requirements for Safety Committee members and Safety Stewards	1	30	1
e) Chemical Safety	1	55	1
f) Safety Audit	1	32	1
g) Two day In-plant training programme on Occupational Safety & Health in Construction Industry	1	18	1
h) Three days In-plant training programme on Occupational Safety and Health	1	85	1
i) In Plant Training on "Process Safety"	1	30	1
<b>II. Programme for Factory Supervisors</b>	<b>1</b>	<b>33</b>	<b>1</b>
a) Safety in the use of Scaffold	1	33	1
<b>Grand Total: (I +II)</b>	<b>11</b>	<b>398</b>	<b>11</b>

**Table 4.10 1-2 days Training Programmes conducted during 2014**

<b>Programme/ Area</b>	<b>No. of Programmes</b>	<b>No. of Participants</b>	<b>No. of Organisations</b>
<b>I. Programme for Management Personnel [Total:(a to j)]</b>	<b>11</b>	<b>254</b>	<b>123</b>
a) Organised a two days Training Programme on "Occupational Safety and Health in Construction Industries"	1	39	10
b) US-DOL Training programme on Construction Safety	1	11	11
c) Training Programme on Selection Quality Assurance for Effective Use of PPE	1	11	1
d) Two days Training programme on "Occupational Safety and Health Management System"	2	53	28
e) Environmental Hazards and their control in Industries	1	9	4
f) Identification, Evaluation and Control of Hazards in Industries	1	25	12
g) Training Programme Safety Audit	1	42	22
h) Awareness on Road Safety	1	18	12
i) Training Programme on "Management of Hazardous Substances"	1	16	10
j) Two days Training programme on "Occupational Safety and Health in Engineering Industry"	1	30	13
<b>II. Programme for Factory Supervisors [Total:(a &amp; b)]</b>	<b>2</b>	<b>50</b>	<b>8</b>
a) Awareness in Safety	1	34	6
b) Safety Awareness in Port Sector	1	16	2
<b>III. Programme for Trade Union Leader/Workers, Joint Participation [Total:(a to h)]</b>	<b>12</b>	<b>216</b>	<b>38</b>
a) Awareness in Safety	1	25	1
b) Occupational Safety & Health	4	35	14
c) Road Safety for Employees of Port Users (Associated with Vehicular Equipment Movement)	1	23	3
d) Awareness in safety for supervisors of Port users working in the dock area	1	23	3
e) Occupational Safety & Health for personal of stevedoring companies	1	10	4
f) Training on OSH for Stevedoring Co.	2	29	8

Programme/ Area	No. of Programmes	No. of Participants	No. of Organisations
g) Road Safety	1	24	4
h) One day awareness programme on "Use of personal Protective Equipment in Construction Industry"	1	47	1
<b>IV. Programme for Students of Educational Institutions [Total:(a to e)]</b>	<b>11</b>	<b>350</b>	<b>41</b>
a) "Industrial Safety" for the PDIS students of Asian Workers Development Institute (AWDI), Rourkela	6	206	6
b) "Safety, Health & Environment at Workplace" for the students of National Institute of Fire & Safety (NIFS) Jharsuguda, Odisha	2	57	3
c) Industrial Hygiene Laboratory of students of The Association of Engineers, Kolkata on "Advanced Diploma in Industrial Safety, 2013-14 session	1	30	1
d) Training Programme on Asbestosis and ILO Radiograph on Pneumoconiosis	1	30	30
e) "Principle and Practice of Industrial Hygiene" & Work Environment Monitoring" for the students of Certificate Course on Construction Safety (July-December, 2014) of RLI, Kolkata	1	27	1
<b>Grand Total: (I +II + III + IV)</b>	<b>36</b>	<b>870</b>	<b>210</b>

Table 4.11 Appreciation and Promotional Programmes conducted during 2014

Sl. No.	Programme	No. of Programmes	No. of Participants	No. of Organisations
1.	Appreciation Programmes	205	5313	1288
2.	Visits to Safety, Health & Welfare Centre	74	1792	253

## 4.10 Education and Training

DGFASLI organized workshops, seminars, training programmes etc. for the benefit of industries, ports, enforcement officials etc.

**4.10.1 Seminars** are organized on the basis of findings and recommendations of various national studies; unit level studies and surveys; and issues and priorities of national concern. These seminars provide platform for discussing various issues related to safety and health; and recommend National level/ State level/ Unit level action plan in respective area of concern.

**4.10.2 Workshops** are organized to enhance the skills of the participants in dealing with matters connected to safety, health, productivity and environment etc.

**4.10.3** Details of seminars and workshops conducted during the year 2014 are given below-

1. A one day Seminar on "Excellence in Occupational Safety & Health Awareness for Industrial Development" for the Executives/Management of Industries, Inspector of Factories, Safety Officers, Safety Professionals was organized by Regional Labour Institute Kolkata on behalf of DGFASLI, Mumbai in collaboration with Inspectorate of Factories, Government of Assam at Hotel the Agneedeeep, Guwahati, Assam on 3rd January, 2014.

The programme was formally inaugurated by Smt. Manimala Borthakur, ACS, Jt. Secretary, Department of Labour & Employment, Government of Assam followed by inaugural speech. Director (Safety) Regional Labour Institute, Kolkata & Chief Inspector of Factories, Assam graced the seminar. 177 dignitaries & delegated from 96 organisations attended the seminar.

The objective of the Seminar was to build up awareness and competence of government officials managers of the industries, representatives of the associations of employers and employees, trade unions representatives, safety professions and the OSH stakeholders on implementation of the National Policy on Safety, Health & Environment at Workplace, OSH statutes, SHE management system, accident prevention programmes, occupational health services etc.

2. One day Seminar on "Sharing of Best Practices on Safety, Health and Environment at Workplace" was organized on 28.04.2014 at DGFASLI, Mumbai in association with SCORE India programme. International Labour Organisation (ILO), New Delhi as part of the World Safety Day Celebrations. The Seminar was attended by 131 participants from 84 organisations.
3. Organised a workshop on Safety & Health management in Sugar Industry from 23rd to 25th July, 2014 under plan scheme. A panel discussion on identification of training needs of sugar industry on Safety & Health was one of the focuses of the workshop. The participant actively participated in the workshop & panel discussion. The workshop was attended by 25 participants from 18 sugar factories of India.

4. Workshop on " Safety in Chemical & Petroleum Industries" for Inspectors of Factories at RLI, Kolkata from 18th to 22nd August, 2014.

The objective of the seminar was to build up awareness and competence of Inspectors of Factories of different States on Safety, Health and Environment in Chemical and Petroleum Industries, OSH statutes, SHE management system, accident prevention programmes, occupational health services, hazard identification and risk assessment, safety audit etc.

Shri D. B. Deb, former Deputy Director General, DGFASLI was present as Chief Guest, Shri U. K. Das, Director (Safety) & Head of Office, Regional Labour Institute, Kolkata & Shri S. Kumar, Director (Safety), RLI, Kolkata graced the Workshop. 17 dignitaries & delegates from 9 different States attended the Workshop.

Shri S. D. Chowdhury, Asstt. Director (Safety) Kolkata delivered welcome address during the Workshop. The programme was formally inaugurated by Shri D. B. Deb, former Deputy Director General, DGFASLI followed by inaugural speech. Shri U. K. Das, Director (Safety) & Head of Office, Regional Labour Institute, Kolkata & Shri S. Kumar, Director (Safety), RLI, Kolkata both delivered the key note address in the inaugural function.

The programme was conducted with deliberation on various OSH matters by the faculty members of RLI, Kolkata and eminent experts of Government Department, Industries etc. The programme was completed successfully with a syndicate exercise followed by feedback and valediction. The programme ended with awareness and competence building of the Inspectors of Factories.

5. Organised and conducted a National Seminar on 'Training Need Assessment in Port Sector on 16.09.2014 at Central Labour Institute, Mumbai. Seminar was inaugurated by Shri S. N. Borkar, Director (Safety) and In-charge, Dock Safety Division. The participants from Major ports of India, private ports, private terminals and union representatives from all over India attended this seminar. The participants made the presentation on the topic followed by group discussion. Subsequently an Action Plan was drawn based on the various presentations made by the individual groups. The Seminar concluded with the Vote of Thanks delivered by Shri Manoj Kasulla, Addl. Asst. Director (Safety), DGFASLI .
6. The Ministry of Labour & Employment has identified Regional Labour Institute, Kolkata as Centre for Excellence in the areas of Ferrous and Non-Ferrous Metals Industry and paper industry through development/up-gradation of Safety Engineering Laboratories and Safety Centre suitably to facilitate OSH studies, surveys, education, training and R & D activities. In this context Regional Labour Institute, Kolkata on behalf of DGFASLI, Mumbai has organized a one day Workshop on "OSH Training Need Identification in Ferrous and Non-Ferrous Metals Industry and paper industry" on 12th November, 2014 at Regional Labour Institute, Kolkata.

Shri D. B. Deb, former Dy. Director General, DGFASLI was present as Chief Guest. Shri U. K. Das, Director (Safety) & Head of Office, Regional Labour Institute, Kolkata and Shri Sushil Kumar, Director (Safety) RLI, Kolkata graced the Workshop 17 delegates from 9 different States attended the Workshop.



Shri S. D. Chowdhury, Asstt. Director (Safety), RLI, Kolkata delivered welcome address during the Workshop. The programme was formally inaugurated by Shri D. B. Deb former Dy. Director General, DGFASLI followed by inaugural speech. Shri U. K. Das, Director (Safety) & Head of Office, Regional Labour Institute, Kolkata and Shri Kumar, Director (Safety), RLI, Kolkata both delivered the key note address in the inaugural function.

The programme was completed successfully with a syndicate exercise followed by feedback and valediction. The programme ended with awareness and competence building of the Govt. officials, Executives of Industries & OSH stakeholders which would be helpful for organizing need based and effective OSH Training for accident prevention and achievement of OSH goals in industries.

7. One day Workshop on "Innovative Ideas in Occupational Safety & Health Awareness for Construction Workers" was organized at Shillong on 09.12.2014 by RLI Kolkata on behalf of DGFASLI in collaboration with Meghalaya Building & Other Construction Workers Welfare Board, Shillong at Shillong Club Ltd., Shillong.

Introductory speech was delivered by Shri S. Datta Choudhury, Asstt. Director (Safety), RLI, Kolkata, and he explained the construction workers are one of the most vulnerable segments of unorganized labour in India. He also explained the National Policy related to construction sector and the role of safety and health issues for economic and social development.

Sri Sushil Kumar, Director (Safety), RLI, Kolkata explained the role of DGFASLI and perspective of the workshop. He emphasized the need of Safety awareness among construction workers as construction is an industry that requires working at ever-changing location and work environment. He also stressed that building a safe workplace in construction industry requires constant efforts and continual improvement. He further explained the schedule of the workshop.

Inaugural speech was delivered by Sri T. D. Khar- IAS, Commissioner & Secretary, Govt. of Meghalaya, Labour Department. He showed the confidence that the workshop would help to build safety and health awareness among construction workers especially women workers. It helps the participants to know about the basic safety guidelines to protect workers. He also emphasized that child labour is to be protected from construction work. He referred various Sections of BOCW (RE&CS) Act, 1996 related to safety and health issues. He emphasized on the use of PPEs by construction workers because they are exposed to hazards. He encouraged the participants to share innovative ideas so that RLI, Kolkata can make training module accordingly. He said this workshop is a demand of the day and participants would be benefited from the workshop.

In Technical Session-I, "Accident Causation & Control Techniques" was deliberated by Sri Sushil Kumar, Director (Safety), RLI, Kolkata, and occupational health related issues for construction workers were delivered by Dr. Andreas Dkhar, MD.

In Technical Session-II "Safety Measures for reduction of accidents" was discussed by the resource person Sri K. B. Makdoh, ACE (PWD), and Shri S. Dutta Choudhury, Asstt. Director (Safety) RLI, Kolkata explained the topic on "Proper use and maintenance of Personal Protective Equipment" followed by safety film show.

#### 4.10.4 Longer Duration Training Programmes

a) **Professional Programmes:** To fulfill the need of qualified Safety Officers, and Factory Medical Officers in the industry, DGFASLI organisation conducts one year **“Advance Diploma in Industrial Safety” (ADIS)** Course and three months **“Associate Fellow of Industrial Health” (AFIH)** Certificate Course respectively. In order to meet the demands of supervisors competent to handle and supervise hazardous processes in industries, a **“One Month Certificate Course in Industrial Safety & Health”** was started at CLI Mumbai as well as RLI Kolkata, Kanpur and Chennai.

b) **Specialised Training Programmes** are conducted for identified target groups such as Inspectors of Factories Senior Managers, Safety Officers, Factory Medical Officers, Supervisors, Trade Union Officials and Safety Committee members from Industry. Basic course for inspectors of factories who are freshly recruited is conducted to impart technical knowledge and skills in the field of safety and health. In view of the need for inspection of specific industries and Major Accident Hazards units, specialised courses are also conducted for senior inspectors. Some of the programmes are exclusively conducted for the union-leaders where joint participation of management personnel and union representatives from industries are the special features of some programmes.

#### 4.10.5 Need Based In-Plant Training Programmes

On the request of managements, various disciplines of DGFASLI conduct in-plant need based training programmes for the benefit of cross-section of personnel from respective units. Such programmes are designed after proper identification of needs of the defined target through preliminary discussions with the managements.

#### 4.10.6 1-2 Days Training Programmes

DGFASLI also organized short duration (1–2 days) training programmes for the benefit of supervisors, workers, and workers representatives from factories. Such programmes are organized in the field of Safety, Health, Hygiene, Psychology, etc.

#### 4.10.7 Appreciation and Promotional Programmes

Each of the Labour Institutes at Mumbai, Kolkata, Kanpur, Chennai and Faridabad has an Industrial Safety Health and Welfare Centre, where half day appreciations programmes are conducted. Appreciation Programmes at various laboratories and divisions of the organization are also conducted.

#### 4.11 Technical Advice

Technical advice and guidance are provided to industries and port users on various aspects relating to control of hazards, prevention of accidents and occupational diseases, work environment, productivity etc.

#### 4.12 Testing of Personal Protective Equipment

The respiratory and non-respiratory Personal protective equipment testing laboratories at the Central Labour Institute, Mumbai undertake performance tests of canisters, masks, helmets, safety shoes, safety goggles, safety belts, welding glasses etc.

**Table 4.12 Personnel Protective Equipment tested in 2014**

Sl. No.	Type of Equipment	No. of Equipments tested
1.	Non-Respiratory Equipment	330
2.	Respiratory Equipment	611
<b>Total</b>		<b>941</b>

#### 4.13 Approval of Flameproof Electrical Enclosures

Use of flame/explosion – proof electrical enclosures is mandatory in hazardous units where flammable environment exists. The control on quality of such flame proof electrical enclosures is assured through test methods as stipulated in IS: 60079-1:2009. DGFASLI is the approving agency for these enclosures for the purposes of the Factories Act, 1948. The approvals are issued on the basis of inspection of units manufacturing these equipments and the test reports obtained by them from recognized testing laboratories such as Central Power Research Institute and Central Institute of Mining and Fuel Research.

**Table 4.13-Approval of Flameproof Electrical Enclosures during the year 2014**

Approvals issued	2 manufacturers for 8 flame-proof electrical enclosures
Inspection visits	2 Manufacturing Units

#### 4.14 Talks

The officers of the organization deliver talks on special topics in programmes organized by outside agencies to disseminate latest technical information with specific reference to national studies, unit level studies, surveys conducted. They are also publishing papers and articles and presenting them in important symposia, workshops and seminars.

**Table 4.14-Institute –wise Talks delivered during 2014**

Sl. No.	Institute	No. of Talks	Participants	Organisations
1.	DGFASLI (HQ)*	18	381	41
2.	Central Labour Institute, Mumbai	6	178	61
3.	Regional Labour Institute, Kolkata	1	30	1
4.	Regional Labour Institute, Chennai	17	5345	4968
5.	Regional Labour Institute, Kanpur	1	15	1
6.	Regional Labour Institute, Faridabad	8	184	60
<b>Total</b>		<b>51</b>	<b>6133</b>	<b>5132</b>

\* Comprising of Factory Advice Service & Dock Safety Divisions.

#### 4.15 Presentation & Publication of Papers/Articles/Reports

The contribution of DGFASLI officers in preparation of papers and articles and presenting/publishing them in important symposia, workshops and seminars are highlighted as under.

**Table 4.15-Paper/Article Presented in 2014**

Sl. No.	Paper/Article	Periodicals/Events	Date
1.	"Implementation of National Policy and Industrial Policy for excellence in SHE Management for Industrial Development	One day Seminar on "Excellence in Occupational Safety & Health Awareness for Industrial Development" for the Executives/Management of Industries, Inspector of Factories, Safety Officers, Safety Professionals by the Regional Labour Institute, Kolkata in collaboration with the Inspectorate of Factories, Assam	03/01/2014
2.	"Prevention of Occupational Health Hazards for excellence in Industrial Development"	One day Seminar on "Excellence in Occupational Safety & Health Awareness for Industrial Development" for the Executives/Management of Industries, Inspector of Factories, Safety Officers, Safety Professionals by the Regional Labour Institute, Kolkata in collaboration with the Inspectorate of Factories, Assam	03/01/2014
3.	"Hazard Identification and Risk Assessment – Tools for Better Control and Prevention"	One day Seminar on "Excellence in Occupational Safety & Health Awareness for Industrial Development" for the Executives/Management of Industries, Inspector of Factories, Safety Officers, Safety Professionals by the Regional Labour Institute, Kolkata in collaboration with the Inspectorate of Factories, Assam	03/01/2014
4.	" Prevention of Occupational Health Hazards for Excellence in Industrial development"	Seminar held at Guwahati	03/01/2014

#### 4.16 CIS National Centre for India

As a CIS National Centre for India CLI provides information and services on:

- Microfiche reference
- Awareness on current events in the areas of OSH
- Information access through CD-ROMs of ILO, WHO, etc.
- MSDS
- Dispersion Models

#### 4.17 "INDOSHNEWS" Newsletter

In order to create Safety and Health awareness and to project the services offered by the organisation and its achievements, DGFASLI brings out a Quarterly newsletter "INDOSHNEWS". This quarterly newsletter is intended to reach to the people around the globe and bring about awareness in matters related to safety and health, highlight important issues, latest developments, current events in the area of safety and health.

**Table 4.16 Papers/Articles Published in 2014**

Sl. No.	Papers/Articles Published	Periodical
1.	Emerging Trends in Safety	January-June
2.	Asbestos, Asbestosis and Cancer	January-June
3.	Strategy for Safe Transportation of Chemicals- Difficulties and Solutions	July-September
4.	Evaluation of Workers Exposures at Workplace from hazardous Optical Radiations Part I: Ultraviolet Radiation	October-December
5.	Safety Award Scheme – Challenges and Solutions	October-December

#### 4.18 DGFASLI website

The DGFASLI website [www.dgfasli.nic.in](http://www.dgfasli.nic.in) is a source of information on various safety and health related matters. The website contains database on abstract of OS&H studies, reports; information on advisory services rendered by DGFASLI in the area of testing of respiratory and non-respiratory personal protective equipment, flame proof equipment approval, material safety data sheets and National Referral Diagnostic Centre, etc. The INDOSHNEWS newsletters of DGFASLI are also available on the website. The training programme calendar for all the labour institutes, announcement on National Safety Awards & Vishwakarma Rashtriya Puraskar awards, AFIH course, Diploma Course in Industrial Safety along with the application forms are available on the website. The website enables users to access other useful websites related to safety and health and get the national directory of organisation-profile of agencies engaged in the field of safety and health. The website also contains the text of the Factories Act, 1948 and the Model Rules framed there under and also the Dock Workers (Safety, Health and Welfare) Act, 1986 etc. Statistics of Factories, Docks, List of Chief Inspectors of Factories, List of Dock Safety Inspectorates are also available.

# 5

## Safety Awards

To appreciate the contribution made by the factories and docks towards producing quality goods and providing efficient services in safe and healthy conditions the following awards are being given.

### 5.1 Prime Minister's Shram Awards (PMSA)

The Prime Minister's Shram Awards (PMSA) were instituted in 1985, for the workers (as defined in Industrial Disputes Act, 1947) in recognition of their outstanding contributions in organizations both in public and private sector and who have distinguished record of performance, devotion to duty of a high order, specific contribution in the field of productivity, proven innovative abilities, presence of mind and exceptional courage and also to the workmen who have made supreme sacrifice of laying down their lives in the conscientious discharge of their duties.

It has been decided from the year 2004 onwards that the private sectors shall also be included within the ambit of Prime Minister's Shram Awards and the workers in the private sector units employing 500 or more workers and engaged in manufacturing and productive processes will be eligible to apply for these awards. The number of awards has been increased from 17 to 33. The awards, in order of sequence are Shram Ratna, Shram Bhushan, Shram Vir/Veerangana and Shram Shri/Devi. The recognition consists of a Sanad and cash award of Rs. Two lakh (1 award), Rs. One lakh (4 awards), Rs. 60,000 (12 awards) and Rs. 40,000 (16 awards) respectively.

### 5.2 Vishwakarma Rashtriya Puraskar & National Safety Awards

The DGFASLI on behalf of the Ministry of Labour and Employment has been implementing the Vishwakarma Rashtriya Puraskar (VRP) (earlier known as Shram Vir National Awards) and the National Safety Awards scheme since 1965. These schemes were modified in 1971, 1978 and again in 2007. The schemes presently in operation are as follow:

- (i) **Vishwakarma Rashtriya Puraskar:** It is designed to give recognition at the national level to outstanding suggestions resulting in (i) Higher Productivity (ii) Improvement in safety and working conditions (iii) Savings in foreign exchange (import substitution as well as quality and safety of products), (iv) Improvement in overall efficiency of the establishments. It covers workers employed in factories and docks. The prizes are grouped in three classes i.e. (a) Applications ranked 1 to 5 (5 Awards) – Class "A" Awards Rs.75,000/- Each, (b) Applications ranked 6 to 13 (8 Awards) – Class "B" Awards Rs.50,000/- Each (c) Applications ranked 14 to 28 (15 Awards) – Class "C" Awards RS.25,000/- Each. These awards are applicable to the workers of Industrial establishments covered under the Factories Act, 1948, the employees covered under the Dock Worker (Safety, Health and Welfare) Act 1986, the Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996 and Installations under Atomic Energy Regulatory Board (AERB).

- (ii) **National Safety Awards:** National Safety Awards are given in recognition of outstanding safety performance on the part of the industrial establishments covered under the Factories Act 1948, the employers covered under the Dock Worker (Safety, Health and Welfare) Act 1986, the Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996 and Installations under Atomic Energy Regulatory Board (AERB). Shields and Citation Certificates are awarded to Winners and Runners Up. Schemes I to X are meant for factories, construction sites and nuclear Installations and Schemes XI and XII are for Ports. The Schemes/Schedule based on lowest frequency rate of accidents were deliberated in comparison with latest national Average Frequency Data of Accidents namely; for the period from 2005 to 2007 for manufacturing sector and for the period from 2007 – 08 to 2009 – 10 for the Port Sector.

### Achievement in 2014

The Award presentation function for Vishwakarma Rashtriya Puraskar and National Safety Awards for the Performance year 2012 was held at Vigyan Bhavan, New Delhi and the awards were presented by the Hon'ble Minister of Labour and Employment, Shri Narendra Singh Tomar. The awards division received 142 applications under the Vishwakarma Rashtriya Puraskar from factories and docks and 144 applications under National Safety Awards for the performance year 2012. Out of this 07 Vishwakarma Rashtriya Puraskar and 19 National Safety Awards applications were rejected owing to various discrepancies and 135 VRP and 125 NSA applications were accepted for processing and assessment. Out of which 28 applications were selected as Winners of VRP for the performance year 2012. Total 89 applications (57 Winners & 32 Runners-up) were recommended for National Safety Awards.

**Table 5.1- Applications received for Vishwakarma Rashtriya Puraskar and the number of awards given**

Performance Year	Applications Received	Awards given
2007	146	28
2008	192	28
2009	234	28
2010	162	28
2011	194	28
2012	142	28

Table 5.2- Estimated annual savings resulting from the suggestions

Performance Year	Savings in Indian Currency		Savings in Foreign Exchange	
	Recurring	Non-Recurring	Recurring	Non-Recurring
2008	1,45,20,20,000	10,09,50,000	23,00,00,000	-
2009	10,82,85,00,000	94,83,04,000	21,73,14,500	29,59,00,000
2010	1,45,97,88,000	77,14,00,000	1,19,76,304	49,60,155
2011	23,46,20,990	8,65,18,362	5,89,584	16,370
2012	8,37,70,16,690	5,61,15,000	2,22,69,000	-

Table 5.3- National Safety Awards under different schemes

Performance Year	National Safety Awards	SCHEMES											
		I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
2008	Applications	88	50	30	24	30	30	29	24	11	12	03	03
	Awards	25	21	13	11	09	09	08	08	03	04	01	02
2009	Applications	100	50	38	30	18	19	20	20	04	04	04	04
	Awards	27	21	16	15	09	10	08	09	02	02	02	02
2010	Applications	55	32	16	19	09	11	10	11	02	02	01	02
	Awards	22	19	08	09	06	07	05	05	02	02	-	01
2011	Applications	44	27	18	16	13	11	13	16	04	03	-	-
	Awards	22	17	11	12	08	10	06	08	02	02	-	-
2012	Applications	30	31	10	12	09	12	08	09	02	02	-	-
	Awards	20	19	10	10	05	07	06	08	02	02	-	-



## 6

## Human Resource Development

The officers of the Organisation are deputed to the programmes organized by various agencies within the country and abroad, for their exposure to the latest technical developments that are taking place in the field of Industrial Safety and Health. The details of such participation during the year are given below:

**Table 6.1- International Programmes attended by officers of DGFASLI during 2014**

Sl. No.	Programme Title	Place	From	To	No. of officers trained
1.	Fellowship Training Workshop to improve Occupational Safety and Health Conditions in Asia and the Pacific with the Korea Occupational Safety and health Agency (KOSHA)	KOSHA, Ulsan, Republic of Korea	19/05/2014	30/05/2015	1
2.	OSHA Training Programme on Occupational Safety & Health	Chicago, USA	22/09/2014	03/10/2014	12
3.	Inter-Agency Workshop on the Sound Management of Industrial Chemicals with Special Emphasis on Asbestos for the Asia-Pacific Region in collaboration with the 7th International Seminar of the Asian Asbestos initiative held at Jakarta, Indonesia.	Jakarta, Indonesia	26/09/2014	01/10/2014	1
4.	Training programme on Occupational Safety and Health organized by ILO International Training Centre at Turin, Italy.	Italy	23/11/2014	06/12/2014	1

Table 6.2- National Programmes attended by officers of DGFASLI during 2014

Sl. No.	Programme Title	Place	From	To	No. of officers trained
1.	Attended 3-day training Programme of Govt. of India Reservation Policy of SC/ST/OBC/PWD	Surajkund, Faridabad	29/05/2014	31/05/2014	1
2.	SAFETY INDIA-2014 a Professional Development Conference and Exposition. The theme of Conference is "Advancing OSH in Saving Lives" organized by American Society of Safety Engineers (ASSE)	Leela Palace, Chennai	26/05/2014	27/05/2014	1
3.	Symposium on "Occupational Health and Safety in the Indian Construction Sector" jointly organized by the GOI and DGUV and BG BAU, Germany	Habitat Centre, New Delhi	23/09/2014	24/09/2014	1
4.	8th CCPS Asia Pacific Regional Meeting on Process Safety organized by Chola MS Risk Services	ITC Grand Chola, Chennai	22/09/2014	-	1
5.	The National Workshop on "Odisha State Safety Conclave 2014"	Bhubaneswar	26/09/2014	27/09/2014	1

## 7

## Statistics on Occupational Safety and Health in Factories

The statistics of factories is collected and compiled by the **Labour Bureau** on the basis of the Annual Returns/Reports in respect of the Factories Act 1948, furnished by various States and Union Territories. Under the Factories Act, 1948, injuries resulting from industrial accidents, by reasons of which the person injured is prevented from attending to work for a period of 48 hours or more immediately following the accident, are recorded. The important indices on injuries are **Frequency Rate (FR)** and **Incidence Rate (IR)**. The **Frequency Rate** is defined as number of total injuries per 1, 00,000 man-days worked. The **Incidence Rate** is the number of injuries per 1000 workers employed in the factories.

The information relating to occupational injuries in factories are given in this chapter in tables 7.1 to 7.7, which are based on the statistics provided by Labour Bureau up to the year 2012.

**Table: 7.1-Statistics of Employment, Industrial Injuries, etc. in Factories for the Year 2008-2012**

Year	No. of Working Factories	Estimated Average daily Employment (in thousands)	Industrial Injuries		Frequency Rate of injuries per lakh Man-days worked		Incidence Rate of injuries per thousand Workers Employed in Factories Submitting Return	
			Fatal	Total	Fatal	Total	Fatal	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
2008	137808	7421	478	5972	0.07	0.88	0.06	0.80
2009	143389	6488	668	6651	0.09	0.85	0.10	1.03
2010	228259	10855	1064	11175	0.06	0.64	0.10	1.03
2011	240824	11578	1083	10441	0.07	0.72	0.09	0.90
2012	161161	7335	682	5769	0.09	0.75	0.09	0.79

**Source:** Data received from Labour Bureau through correspondence.

### Limitations of the data received from Labour Bureau Chandigarh:

The Number of injuries has been given on the basis of notices of accidents whereas the rates have been worked out on the basis of Annual Return.

Table 7.2- State-Wise Total Number of Industrial Injuries in Factories

S. No.	State / Union Territory	2008	2009	2010	2011	2012
1.	Andaman & Nicobar	NA	40(-)	NA	77(-)	40 (-)
2.	Andhra Pradesh	1770(170)	1200(139)	1707(191)	1075 (164)	1336 (153)
3.	Arunachal Pradesh	NA	NA	NA	NA	NA
4.	Assam	82(15)	52(5)	52(6)	77 (8)	78 (8)
5.	Bihar	39(-)	156(27)	215(-)	95 (4)	135 (9)
6.	Chandigarh	NA	8(-)	2(-)	15 (8)	3 (1)
7.	Chhattisgarh	NA	NA	306(84)	320 (98)	158 (106)
8.	Daman & Diu	NA	NA	NA	50 (12)	44 (13)
9.	Delhi	NA	NA	NA	NA	NA
10.	Goa	168(7)	144(10)	109(12)	103 (11)	103 (7)
11.	Gujarat	NA	NA	2992(221)	3263 (249)	NA
12.	Haryana	123(33)	118(31)	65(18)	59 (32)	43 (15)
13.	Himachal Pradesh	NA	NA	NA	242 (10)	NA
14.	Jammu & Kashmir	NA	NA	NA	NA	NA
15.	Jharkhand	237(23)	NA	98(33)	113 (19)	NA
16.	Karnataka	555(22)	NA	NA	NA	NA
17.	Kerala	NA	NA	NA	5 (-)	NA
18.	Lakshadweep	NA	NA	NA	NA	NA
19.	Madhya Pradesh	1476(54)	NA	NA	NA	NA
20.	Maharashtra	NA	3249(217)	2933(222)	2601 (183)	2608 (216)
21.	Manipur	NA	-	-	NA	NA
22.	Meghalaya	18(1)	28(-)	-	-	NA
23.	Mizoram	NA	NA	NA	NA	NA
24.	Nagaland	NA	NA	-	-	-
25.	Odisha	564(81)	548(122)	580(102)	550 (60)	NA
26.	Puducherry	NA	NA	56(10)	56 (10)	38 (8)
27.	Punjab	229(3)	283(35)	241(22)	217 (34)	NA
28.	Rajasthan	656(49)	755(56)	856(67)	746 (63)	733 (34)
29.	Sikkim	NA	NA	NA	NA	NA
30.	Tamil Nadu	NA	NA	957(75)	774 (118)	443 (110)
31.	Tripura	1(-)	6(2)	6(1)	3 (-)	7(2)
32.	Uttar Pradesh	NA	NA	NA	NA	NA
33.	Uttaranchal	54(20)	64(24)	NA	NA	NA
34.	West Bengal	NA	NA	-	-	NA
<b>Total</b>		<b>5972 (478)</b>	<b>6651 (668)</b>	<b>11175 (1064)</b>	<b>10441 (1083)</b>	<b>5769 (682)</b>

**Note:** (i) NA = Not Available

(ii) - = Nil

(iii) Figures in brackets pertain to "Fatalities" and are included in the total.

(iv) For limitations of the data please refer note under table 7.1

**Source:** Data received from Labour Bureau through correspondence.

Table 7.3- State-wise Frequency Rates of Industrial Injuries in Factories

S. No.	State/ Union Territory	2008	2009	2010	2011	2012
1.	Andaman & Nicobar	NA	3.45(-)	NA	5.93 (-)	2.89 (-)
2.	Andhra Pradesh	1.30(0.13)	0.80(0.09)	0.70(0.80)	0.55 (0.08)	0.72 (0.08)
3.	Arunachal Pradesh	NA	NA	NA	NA	NA
4.	Assam	0.76(0.14)	1.83(0.18)	0.45(0.05)	0.63 (0.07)	0.74 (0.08)
5.	Bihar	0.95(-)	6.15(1.06)	5.83(-)	3.06 (0.13)	4.89 (0.33)
6.	Chandigarh	NA	0.34(-)	0.09(-)	0.58 (0.31)	0.13 (0.04)
7.	Chhattisgarh	NA	NA	0.13(0.04)	3.21 (0.98)	0.5 (0.33)
8.	Daman & Diu	NA	NA	NA	0.36 (0.09)	898.69 (265.52)
9.	Delhi	NA	NA	NA	NA	NA
10.	Goa	1.12(0.05)	0.67(0.05)	0.60(0.07)	0.57 (0.06)	0.51 (0.03)
11.	Gujarat	NA	NA	2.79(0.21)	2.97 (0.23)	NA
12.	Haryana	0.29(0.08)	0.20(0.05)	0.14(0.04)	0.13 (0.07)	0.06 (0.02)
13.	Himachal Pradesh	NA	NA	NA	0.65 (0.03)	NA
14.	Jammu & Kashmir	NA	NA	NA	NA	NA
15.	Jharkhand	0.22(0.02)	NA	0.09(0.03)	0.47 (0.08)	NA
16.	Karnataka	0.65(0.03)	NA	NA	NA	NA
17.	Kerala	NA	NA	-	0.01 (-)	NA
18.	Lakshadweep	NA	NA	NA	NA	NA
19.	Madhya Pradesh	5.23(0.19)	NA	NA	NA	NA
20.	Maharashtra	NA	1.11(0.07)	0.87(0.07)	0.72 (0.05)	0.72 (0.06)
21.	Manipur	NA	-(-)	-(-)	NA	NA
22.	Meghalaya	0.91(0.05)	5.96(-)	-(-)	-	NA
23.	Mizoram	NA	NA	NA	NA	NA
24.	Nagaland	NA	NA	-(-)	-	-
25.	Odisha	1.23(0.18)	1.00(0.22)	0.87(0.15)	0.84 (0.09)	NA
26.	Puducherry	NA	NA	0.50(0.09)	0.86 (0.15)	0.51 (0.11)
27.	Punjab	0.73(0.01)	1.01(0.12)	0.87(0.08)	0.92 (0.14)	NA
28.	Rajasthan	1.48(0.11)	1.53(0.11)	1.48(0.12)	1.42	1.23 (0.06)
29.	Sikkim	NA	NA	NA	NA	NA
30.	Tamil Nadu	NA	NA	0.23(0.02)	0.19 (0.03)	11.61 (2.88)
31.	Tripura	0.07(-)	0.19(0.06)	0.20(0.03)	0.1 (-)	0.2 (0.06)
32.	Uttar Pradesh	NA	NA	NA	NA	NA
33.	Uttaranchal	0.24(0.09)	0.22(0.08)	NA	NA	NA
34.	West Bengal	NA	NA	-(-)	-	NA
<b>Total</b>		0.88(0.07)	0.85(0.09)	0.64(0.06)	0.72 (0.07)	0.75 (0.09)

**Note:** (i) F.R. = Frequency Rate per lakh man-days worked (ii) NA = Not Available, (iii) (-) = Nil or Negligible  
(iv) Figures in bracket pertain to "Fatalities" and are included in the total  
(v) For limitations of the data please refer note under table 7.1

**Source:** Data received from Labour Bureau through correspondence.

Table 7.4- State-wise Incidence Rates of Industrial Injuries in Factories

S. No.	State/ Union Territory	2008	2009	2010	2011	2012
1.	Andaman & Nicobar	NA	7.33(-)	NA	13.87 (-)	7.05 (-)
2.	Andhra Pradesh	2.03(0.19)	1.26(0.15)	1.67(0.19)	1.04 (0.16)	1.15 (0.13)
3.	Arunachal Pradesh	NA	NA	NA	NA	NA
4.	Assam	0.76(0.14)	0.38(0.04)	0.35(0.04)	0.49 (0.05)	0.45 (0.05)
5.	Bihar	0.34(-)	1.27(0.22)	1.55(-)	0.64 (0.03)	0.8 (0.05)
6.	Chandigarh	NA	0.72(-)	0.16(-)	1.28 (0.68)	0.24 (0.08)
7.	Chhattisgarh	NA	NA	1.16(0.32)	1.14 (0.35)	0.67 (0.45)
8.	Daman & Diu	NA	NA	NA	0.34 (0.08)	0.25 (0.07)
9.	Delhi	NA	NA	NA	NA	NA
10.	Goa	3.04(0.13)	2.23(0.15)	1.60(0.18)	1.55 (0.17)	1.46 (0.1)
11.	Gujarat	NA	NA	2.31(0.17)	2.35 (0.18)	NA
12.	Haryana	0.18(0.05)	0.16(0.04)	0.08(0.02)	0.07 (0.04)	0.05 (0.02)
13.	Himachal Pradesh	NA	NA	NA	0.89 (0.04)	NA
14.	Jammu & Kashmir	NA	NA	NA	NA	NA
15.	Jharkhand	0.76(0.07)	NA	0.25(0.08)	0.27 (0.05)	NA
16.	Karnataka	0.49(0.02)	NA	NA	NA	NA
17.	Kerala	NA	NA	NA	0.01 (-)	NA
18.	Lakshadweep	NA	NA	NA	NA	NA
19.	Madhya Pradesh	3.29(0.12)	NA	NA	NA	NA
20.	Maharashtra	NA	2.12(0.14)	1.74(0.13)	1.41 (0.1)	1.25 (0.1)
21.	Manipur	-(-)	-(-)	-	NA	NA
22.	Meghalaya	2.84(0.16)	4.64(-)	-	-	NA
23.	Mizoram	NA	NA	NA	NA	NA
24.	Nagaland	NA	NA	-	-	-
25.	Odisha	3.22(0.46)	2.51(0.56)	2.19(0.39)	1.97 (0.21)	NA
26.	Puducherry	NA	NA	0.72(0.13)	0.7 (0.13)	0.46 (0.1)
27.	Punjab	0.39(0.01)	0.48(0.06)	0.39(0.04)	0.34 (0.05)	NA
28.	Rajasthan	1.10(0.08)	1.25(0.09)	1.50(0.12)	1.22 (0.1)	1.06 (0.05)
29.	Sikkim	NA	NA	NA	NA	NA
30.	Tamil Nadu	NA	NA	0.64(0.05)	0.52 (0.08)	0.28 (0.07)
31.	Tripura	0.02(-)	0.12(0.04)	0.10(0.02)	0.05 (-)	0.12 (0.03)
32.	Uttar Pradesh	NA	NA	-	NA	NA
33.	Uttaranchal	0.52(0.19)	0.39(0.15)	NA	NA	NA
34.	West Bengal	NA	NA	NA	-	-
<b>Total</b>		0.80(0.06)	1.03(0.10)	1.03(0.10)	0.9 (0.09)	0.79 (0.09)

**Note:** (i) I.R. = Incidence Rate per 1000 workers employed.  
(ii) NA = Not Available, (iii) (-) = Nil  
(iv) Figures in bracket pertain to "Fatalities" and are included in the total,  
(v) For limitations of the data please refer note under table 7.1

**Source:** Data received from Labour Bureau through correspondence.

Table 7.5- Industrial Injuries and their Incidence Rate (IR) per Thousand Workers Employed by Important Industries

Sl. No.	Industry	NIC Code 2008	2008		2009		2010		2011		2012	
			Total Injuries	IR	Total Injuries	IR	Total Injuries	IR	Total Injuries	IR	Total Injuries	IR
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.	All Textiles	13,14	1740 (37)	1.21 (0.03)	1326 (59)	1.52 (0.07)	2937 (83)	4.09 (0.12)	2921 (96)	3.82 (0.13)	1063 (44)	1.58 (1.52)
2.	Manufacture of Paper & paper products & printing, publishing & allied products	17,18	231 (22)	0.97 (0.09)	108 (21)	0.38 (0.07)	341 (28)	2.17 (0.18)	252 (49)	1.61 (0.31)	178 (22)	1.17 (0.14)
3.	Manufacture of Chemicals & Chemical products (Except Petroleum and coal products)	20	206 (42)	0.50 (0.10)	186 (35)	0.40 (0.08)	719 (140)	1.02 (0.20)	1605 (193)	2.1 (0.25)	562 (94)	1.37 (0.23)
4.	Manufacture of Non-metallic mineral products	23	717 (65)	1.14 (0.10)	291 (63)	0.52 (0.11)	534 (86)	0.66 (0.11)	331 (80)	0.38 (0.09)	154 (39)	0.26 (0.06)
5.	Basic metal and alloys Industries	24	664 (121)	1.06 (0.19)	1042 (189)	2.19 (0.40)	1367 (311)	1.31 (0.30)	930 (211)	0.85 (0.19)	503 (130)	1 (0.26)
6.	Manufacture of metal products & Parts (except machinery & transport equipment)	25	297 (8)	0.75 (0.02)	365 (19)	0.87 (0.05)	1152 (57)	1.60 (0.08)	767 (58)	0.98 (0.07)	300 (52)	0.56 (0.1)
7.	Manufacture of machinery, machine tools & parts tools (except electrical machinery)	28	144 (11)	0.24 (0.02)	317 (17)	0.80 (0.04)	622 (31)	1.18 (0.06)	534 (50)	0.98 (0.09)	293 (8)	0.87 (0.02)

Contd. ...

Sl. No.	Industry	NIC Code 2008	2008		2009		2010		2011		2012(P)	
			Total Injuries	IR	Total Injuries	IR	Total Injuries	IR	Total Injuries	IR	Total Injuries	IR
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
8.	Manufacture of transport equipment and parts	30	320 (12)	0.89 (0.03)	422 (20)	0.91 (0.04)	456 (18)	1.78 (0.07)	400 (42)	1.37 (0.14)	236 (17)	1.39 (0.1)
9.	Electricity, Gas and Steam	35	145 (26)	0.96 (0.17)	167 (29)	1.30 (0.23)	220 (32)	0.98 (0.14)	250 (61)	0.99 (0.24)	311 (54)	1.88 (0.33)
Total of (Sl. No. 1 to 9 Industries)			<b>4464</b> <b>(344)</b>	<b>0.92</b> <b>(0.07)</b>	<b>4224</b> <b>(452)</b>	<b>1.04</b> <b>(0.11)</b>	<b>8348</b> <b>(786)</b>	<b>3.08</b> <b>(0.29)</b>	<b>7990</b> <b>(840)</b>	<b>2.81</b> <b>(0.3)</b>	<b>3600</b> <b>(460)</b>	<b>1.61</b> <b>(0.21)</b>
<b>* Total of All Industries</b>			5972 (478)	0.80 (0.06)	6651 (668)	1.03 (0.10)	11175 (1064)	1.03 (0.10)	10441(1 083)	0.9 (0.09)	5769 (682)	0.79 (0.09)

**Note:** (i) Figures in brackets indicate "Fatalities" and are included in the Total

(ii)\* The figures for All Industries include the figures of other industries apart from above Industries shown.

(iii) For limitations of data refer footnote of table 7.1

**Source:** Data received from Labour Bureau through correspondence.



Table 7.6- Frequency Rate of Total Injuries by Important Industries

Sl. No.	Industry	NIC Code 2008	2008	2009	2010	2011	2012(P)
1.	All Textiles	13,14	1.57	1.63	1.33	1.26	1.26
2.	Manufacture of Paper & paper products & printing, publishing & allied products	17,18	0.96	0.33	0.69	0.54	0.74
3.	Manufacture of Chemicals & Chemical products (Except products of Petroleum and coal)	20	0.36	0.22	0.69	1.42	1.25
4.	Manufacture of Non-metallic mineral products	23	1.57	0.68	0.8	0.5	0.34
5.	Basic metal and alloys Industries	24	0.55	1.26	0.62	0.72	0.69
6.	Manufacture of metal products & Parts(except machinery & transport equipment)	25	1.19	0.87	1.1	0.69	0.51
7.	Manufacture of machinery, machine tools & parts (except electrical machinery)	28	0.35	0.62	0.96	0.73	0.59
8.	Manufacture of transport equipment and parts	30	0.67	0.53	0.98	0.83	0.96
9.	Electricity, Gas and Steam	35	0.77	0.70	0.08	0.68	1.45
Total of (Sl. No. 1 to 9 Industries)			<b>0.91</b>	<b>0.81</b>	<b>0.72</b>	<b>0.93</b>	<b>0.84</b>
<b>* Total of All Industries</b>			<b>0.88</b>	<b>0.85</b>	<b>0.64</b>	<b>0.72</b>	<b>0.75</b>

**Note:**

(i) \* The figures for All Industries include the figures of other industries apart from above industries shown.

(ii) For limitations of data refer footnote of table 7.1

**Source:** Data received from Labour Bureau through correspondence.

Table 7.7- Industrial injuries in Factories by causes

Sl. No.	Causation	2010		2011		2012	
		Total	Fatal	Total	Fatal	Total	Fatal
1.	Prime movers	62	11	38	14	70	7
2.	Machinery moved by Mechanical Power	2565	165	1757	136	1207	102
3.	Machinery not moved by Mechanical Power	236	32	237	38	310	13
4.	Transport whether moved by Power or not	244	31	169	41	67	18
5.	Electricity	243	92	212	85	138	61
6.	Explosions	180	62	86	41	137	31
7.	Fires	208	46	320	131	186	94
8.	Gassing	194	22	104	27	88	5
9.	Molten Metals & other Hot or Corrosive Substances	407	70	417	66	168	37
10.	Hand Tools	389	5	862	11	179	1
11.	Falling Bodies	630	59	966	72	276	38
12.	Persons Falling	1147	153	2157	221	797	153
13.	Stepping on or Striking against Objects	587	18	999	35	398	17
14.	Handling Goods or Articles	604	43	813	42	436	10
15.	Others	2736	102	2754	116	1269	80
<b>Total</b>		<b>10432</b>	<b>911</b>	<b>11891</b>	<b>1076</b>	<b>5726</b>	<b>667</b>

**Note:** (i) For limitations of data refer footnote of table 7.1  
(ii) Total in table 7.7 may not tally with the corresponding tables 7.1, 7.2 and 7.4 due to non-availability of cause-wise data of industrial injuries.

**Source:** Data received from Labour Bureau through correspondence.

## 8

## Statistics on Status of compliance with statutory provisions of the Factories Act, 1948

DGFASLI receives information relating to factories covered under the provisions of the Factories Act, 1948 from States and Union Territories from time to time. This information is mainly collected through FAS Forms as well as through correspondence as and when required from the CIFs of the States/ UTs. It is entered in the data bank specially created at DGFASLI for disseminating any specific information as and when necessary. This information can be used to know the state-wise status of safety and health as well as compliance level with statutory standards in factories. The information can be used for estimation of various trends. It is emphasized here, that for ascertaining the correctness or the updated information given in the following pages/tables, the State Governments/Union Territory Administration concerned may be contacted.

<b>Statistics* of Factories at a Glance: 2013</b>		
No. of Registered Factories		<b>340226</b>
No. of Working Factories		<b>292310</b>
Employment	Total	<b>14042410</b>
	Men	<b>11923967</b>
	Women	<b>2118443</b>
No. of Safety Officers		<b>2801</b>
No. of Welfare Officers		<b>3255</b>
No. of Factory Med. Officers		<b>10579</b>
No. of Factories having Safety Policy		<b>17476</b>
No. of Factories having Safety Committees		<b>13047</b>
No. of MAH Factories		<b>1875</b>
Factories having On-site Emergency Plan		<b>1791</b>
Factories having Canteens Facility		<b>6531</b>
Factories having Creches Facility		<b>5744</b>
Total Injuries		<b>28380</b>
Fatal Injuries		<b>1417</b>

\* (Based on data collected by DGFASLI through correspondence with CIF of States/UTs.)

Table 8.1-Fatal and Non-fatal Injuries in Factories

Sl. No.	State/ Union Territory	2012		2013		2014 (P)	
		Fatal Injuries	Non Fatal Injuries	Fatal Injuries	Non Fatal Injuries	Fatal Injuries	Non Fatal Injuries
1.	Andaman & Nicobar Islands	Nil	Nil	..	..	5	15
2.	Andhra Pradesh	156	526	137	513	85	174
3.	Assam	8	70	8	57	13	58
4.	Bihar	9	126	4	156	12	251
5.	Chandigarh	1	1	Nil	2	..	..
6.	Chhattisgarh	110	321	92	380	101	71
7.	Daman & Diu and Dadra & Nagar Haveli	14	31	12	57	..	..
8.	Delhi	6	18	13	14	1	9
9.	Goa	8	85	10	45	5	80
10.	Gujarat	216	2781	218	2285	240	1751
11.	Haryana	15	28	40	21	41	64
12.	Himachal Pradesh	10	11	11	23	13	23
13.	Jammu & Kashmir	8	5	..	..	..	..
14.	Jharkhand	33	149	35	92	21	78
15.	Karnataka	76	682	68	43	..	..
16.	Kerala	29	87	27	68	24	234
17.	Madhya Pradesh	45	791	48	465	59	334
18.	Maharashtra	215	2333	199	2013	187	1687
19.	Manipur	..	..	..	..	..	..
20.	Meghalaya	1	Nil	3	3	1	1
21.	Nagaland	Nil	Nil	Nil	Nil	Nil	Nil
22.	Odisha	78	335	58	104	..	..
23.	Pudduchery	8	30	3	25	6	12
24.	Punjab	34	142	29	103	12	97
25.	Rajasthan	34	699	55	706	39	624
26.	Tamil Nadu	110	314	109	415	105	291
27.	Telangana	#	#	#	#	54	39
28.	Tripura	2	5	2	4	2	6
29.	Uttar Pradesh	72	102	129	71	45	47
30.	Uttarakhand	23	76	11	48	7	47
31.	West Bengal	62	18693	96	19250	63	19180
<b>Total</b>		<b>1383</b>	<b>28441</b>	<b>1417</b>	<b>26963</b>	<b>1141</b>	<b>25173</b>

**Note:** (i) There are no registered factories in Arunachal Pradesh, Lakshadweep, Mizoram and Sikkim.

(ii) P : Provisional

(iii) .. : Not Available

(iv)# : Newly created State in 2014.

**Source:** Data collected by DGFASLI through correspondence with Chief Inspector of Factories of States/ UTs.

Table 8.2-State-wise Status of Employment in Factories during 2013(P)

Sl. No.	State/ Union Territory	Registered Factories	Working Factories	Total Employment	Female Workers
1.	Andaman & Nicobar Islands	46	46	5761	232
2.	Andhra Pradesh	45850	35662	943975	153766
3.	Assam	5238	4093	39446	4636
4.	Bihar	9547	9322	187603	306
5.	Chandigarh	831	424	7039	410
6.	Chhattisgarh	3580	3536	271072	9537
7.	Daman & Diu and Dadra & Nagar Haveli	6076	4680	191880	63320
8.	Delhi	12316	8739	385189	25622
9.	Goa	697	696	70409	11058
10.	Gujarat	40763	29121	1533369	2482
11.	Haryana	12746	12995	671235	64726
12.	Himachal Pradesh	4735	4735	306232	9573
13.	Jammu & Kashmir	..	..	..	..
14.	Jharkhand	6637	5634	252147	10639
15.	Karnataka	14673	13979	1341570	465780
16.	Kerala	21382	21382	645013	297386
17.	Madhya Pradesh	7932	7613	332858	15437
18.	Maharashtra	44863	37894	2085889	312883
19.	Manipur	995	995	11538	5193
20.	Meghalaya	150	147	9705	524
21.	Nagaland	284	284	6533	1069
22.	Odisha	3666	2325	304490	9885
23.	Puducherry	2919	2035	80310	9950
24.	Punjab	18137	17797	618919	3432
25.	Rajasthan	12926	12907	479141	1821
26.	Tamil Nadu	41844	34337	1776360	583571
27.	Tripura	1539	1539	62762	9985
28.	Uttar Pradesh	..	..	..	..
29.	Uttarakhand	3294	3294	348009	26270
30.	West Bengal	16560	16099	1073956	18950
<b>Total</b>		<b>340226</b>	<b>292310</b>	<b>14042410</b>	<b>2118443</b>

**Note:** (i) There are no registered factories in Arunachal Pradesh, Lakshadweep, Mizoram and Sikkim.

(ii) P : Provisional

(iii) .. : Not Available

**Source:** Data collected by DGFASLI through correspondence with Chief Inspector of Factories of States/ UTs.

Table 8.3- State-wise Hazardous Process Factories under Sec. 2(cb) as on 2013 (P)

Sl. No.	State/ Union Territory	No. of Hazardous Factories	No. of Workers
1.	Andaman & Nicobar Islands	2	177
2.	Andhra Pradesh	1433	135950
3.	Assam	12	8074
4.	Bihar	45	16157
5.	Chandigarh	0	0
6.	Chhattisgarh	687	206092
7.	Daman & Diu and Dadra & Nagar Haveli	48	1540
8.	Delhi	366	16132
9.	Goa	17	5901
10.	Gujarat	1530	30600
11.	Haryana	1010	28827
12.	Himachal Pradesh	83	13208
13.	Jammu & Kashmir	..	..
14.	Jharkhand	566	112645
15.	Karnataka	1170	199516
16.	Kerala	714	21416
17.	Madhya Pradesh	1113	82728
18.	Maharashtra	4252	420093
19.	Manipur	6	967
20.	Meghalaya	77	6698
21.	Nagaland	0	0
22.	Odisha	444	187237
23.	Puducherry	202	16650
24.	Punjab	333	32913
25.	Rajasthan	1087	118263
26.	Tamil Nadu	1205	162667
27.	Tripura	22	1598
28.	Uttar Pradesh	..	..
29.	Uttarakhand	713	54284
30.	West Bengal	5953	332324
<b>Total</b>		<b>23090</b>	<b>2212657</b>

**Note:** (i) There are no registered factories in Arunachal Pradesh, Lakshadweep, Mizoram and Sikkim.

(ii) P : Provisional

(iii) .. : Not Available

**Source:** Data collected by DGFASLI through correspondence with Chief Inspector of Factories of States/ UTs.

Table 8.4- Inspectors of Factories for the year 2013 (P)

Sl. No.	State/ Union Territory	Sanctioned	In-position
1.	Andaman & Nicobar Islands	2	2
2.	Andhra Pradesh	76	38
3.	Assam	29	23
4.	Bihar	21	9
5.	Chandigarh	0	6
6.	Chhattisgarh	27	10
7.	Daman & Diu and Dadra & Nagar Haveli	1	1
8.	Delhi	15	10
9.	Goa	7	6
10.	Gujarat	148	77
11.	Haryana	36	35
12.	Himachal Pradesh	2	50
13.	Jammu & Kashmir	..	..
14.	Jharkhand	25	21
15.	Karnataka	41	30
16.	Kerala	57	57
17.	Madhya Pradesh	41	28
18.	Maharashtra	131	88
19.	Manipur	2	3
20.	Meghalaya	3	3
21.	Nagaland	3	3
22.	Odisha	34	29
23.	Puducherry	9	6
24.	Punjab	27	17
25.	Rajasthan	39	21
26.	Tamil Nadu	169	97
27.	Tripura	5	5
28.	Uttar Pradesh	..	..
29.	Uttarakhand	2	2
30.	West Bengal	72	39
<b>Total</b>		<b>1024</b>	<b>716</b>

**Note:** (i) There are no registered factories in Arunachal Pradesh, Lakshadweep, Mizoram and Sikkim.

(ii) P : Provisional

(iii) .. : Not Available

**Source:** Data collected by DGFASLI through correspondence with Chief Inspector of Factories of States/ UTs.

Table 8.5-State-wise Specialist Inspectors of Factories for the year 2013 (P)

Sl. No.	State/ Union Territory	Medical Inspectors		Chemical Inspector		Hygiene Inspector		Others	
		Sanctioned	In-Position	Sanctioned	In-Position	Sanctioned	In-Position	Sanctioned	In-position
1.	Andaman & Nicobar Islands	0	0	0	0	0	0	0	0
2.	Andhra Pradesh	3	1	1	1	0	0	6	6
3.	Assam	1	0	0	0	0	0	0	0
4.	Bihar	2	1	2	1	0	0	0	0
5.	Chandigarh	0	0	0	0	0	0	0	0
6.	Chhattisgarh	1	0	0	0	0	0	0	0
7.	Daman & Diu and Dadra & Nagar Haveli	0	0	0	0	0	0	0	0
8.	Delhi	1	1	1	0	0	0	0	0
9.	Goa	1	1	0	0	0	0	0	0
10.	Gujarat	5	2	1	1	0	0	4	1
11.	Haryana	5	3	5	5	0	0	3	3
12.	Himachal Pradesh	0	0	1	0	0	0	0	0
13.	Jammu & Kashmir	..	..	..	..	..	..	..	..
14.	Jharkhand	0	0	0	0	0	0	0	0
15.	Karnataka	1	1	0	0	0	0	1	1
16.	Kerala	4	4	5	5	0	0	2	2
17.	Madhya Pradesh	1	0	0	0	0	0	0	0
18.	Maharashtra	2	0	0	0	0	0	0	0
19.	Manipur	0	0	0	0	0	0	0	0
20.	Meghalaya	0	0	0	0	0	0	0	0
21.	Nagaland	0	0	0	0	0	0	0	0
22.	Odisha	1	1	0	0	0	0	0	0
23.	Puducherry	1	1	1	1	0	0	1	1
24.	Punjab	3	3	0	0	0	0	0	0
25.	Rajasthan	1	1	3	2	1	1	2	0
26.	Tamil Nadu	1	1	0	0	0	0	0	0
27.	Tripura	0	0	0	0	0	0	0	0
28.	Uttar Pradesh	..	..	..	..	..	..	..	..
29.	Uttarakhand	0	0	0	0	0	0	0	0
30.	West Bengal	9	4	12	9	0	0	0	0
<b>Total</b>		<b>43</b>	<b>25</b>	<b>32</b>	<b>25</b>	<b>1</b>	<b>1</b>	<b>19</b>	<b>14</b>

**Note:** (i) There are no registered factories in Arunachal Pradesh, Lakshadweep, Mizoram and Sikkim.

(ii) P : Provisional

(iii) .. : Not Available

**Source:** Data collected by DGFASLI through correspondence with Chief Inspector of Factories of States / UTs.



Table 8.6- State-wise Certifying Surgeons of Factories for the year 2013 (P)

Sl. No.	State/ Union Territory	Employed		Notified	
		Sanctioned	In position	Sanctioned	In position
1.	Andaman & Nicobar Islands	0	0	4	4
2.	Andhra Pradesh	0	0	0	0
3.	Assam	4	0	0	0
4.	Bihar	0	0	0	0
5.	Chandigarh	0	0	0	0
6.	Chhattisgarh	0	0	0	0
7.	Daman & Diu and Dadra & Nagar Haveli	0	0	0	1
8.	Delhi	1	1	1	1
9.	Goa	0	0	0	0
10.	Gujarat	21	9	0	0
11.	Haryana	0	0	0	0
12.	Himachal Pradesh	0	0	0	12
13.	Jammu & Kashmir	..	..	..	..
14.	Jharkhand	0	0	0	0
15.	Karnataka	0	0	0	0
16.	Kerala	0	0	0	0
17.	Madhya Pradesh	0	0	0	0
18.	Maharashtra	1	1	0	0
19.	Manipur	0	0	0	0
20.	Meghalaya	0	0	0	0
21.	Nagaland	0	0	0	0
22.	Odisha	0	0	21	21
23.	Puducherry	1	1	0	0
24.	Punjab	0	0	0	0
25.	Rajasthan	1	1	0	0
26.	Tamil Nadu	8	7	8	7
27.	Tripura	0	0	20	20
28.	Uttar Pradesh	..	..	..	..
29.	Uttarakhand	0	0	0	0
30.	West Bengal	9	4	0	0
<b>Total</b>		<b>46</b>	<b>24</b>	<b>54</b>	<b>66</b>

**Note:** (i) There are no registered factories in Arunachal Pradesh, Lakshadweep, Mizoram and Sikkim.

(ii) P : Provisional

(iii) .. : Not Available

**Source:** Data collected by DGFASLI through correspondence with Chief Inspector of Factories of States/ UTs.

Table 8.7- No. of Factories Inspected during the year 2013 (P)

Sl. No.	State/ Union Territory	All Factories	Hazardous Factories
1.	Andaman & Nicobar Islands	28	2
2.	Andhra Pradesh	10198	1419
3.	Assam	1629	16
4.	Bihar	1194	45
5.	Chandigarh	24	0
6.	Chhattisgarh	1152	353
7.	Daman & Diu and Dadra & Nagar Haveli	180	20
8.	Delhi	1775	183
9.	Goa	224	15
10.	Gujarat	16490	2727
11.	Haryana	1562	195
12.	Himachal Pradesh	1093	83
13.	Jammu & Kashmir	..	..
14.	Jharkhand	2795	537
15.	Karnataka	7979	1025
16.	Kerala	12852	698
17.	Madhya Pradesh	3423	1073
18.	Maharashtra	18184	2735
19.	Manipur	150	6
20.	Meghalaya	35	3
21.	Nagaland	204	0
22.	Odisha	2434	444
23.	Pudduchery	1670	160
24.	Punjab	2904	176
25.	Rajasthan	2163	0
26.	Tamil Nadu	34787	1431
27.	Tripura	1330	22
28.	Uttar Pradesh	..	..
29.	Uttarakhand	78	34
30.	West Bengal	3813	1207
<b>Total</b>		<b>130350</b>	<b>14609</b>

**Note:** (i) There are no registered factories in Arunachal Pradesh, Lakshadweep, Mizoram and Sikkim.

(ii) P : Provisional

(iii) .. : Not Available

**Source:** Data collected by DGFASLI through correspondence with Chief Inspector of Factories of States/ UTs.

Table 8.8- Prosecution and Convictions under Section 92 &amp; Section 96A for the year 2013 (P)

Sl. NO.	State/ Union Territory	Pending from Previous year	Launched during the year	Decided during the year	Convictions	Imprisonment (Person)	Total fine Imposed (Rs.)
1.	Andaman & Nicobar Islands	0	0	0	0	0	0
2.	Andhra Pradesh	4831	1216	886	525	0	4360750
3.	Assam	19	17	0	0	0	0
4.	Bihar	81	33	0	0	0	0
5.	Chandigarh	0	0	0	0	0	0
6.	Chhattisgarh	795	465	331	180	9	17795000
7.	Daman & Diu and Dadra & Nagar Haveli	0	0	0	0	0	0
8.	Delhi	233	22	166	166	0	158900
9.	Goa	42	15	8	7	0	208500
10.	Gujarat	8921	2047	382	137	0	2669800
11.	Haryana	8032	4712	4686	2398	0	10209234
12.	Himachal Pradesh	208	96	57	57	0	445550
13.	Jammu & Kashmir	..	..	..	..	..	..
14.	Jharkhand	223	42	3	0	0	0
15.	Karnataka	450	199	109	48	1	1623911
16.	Kerala	96	66	38	32	0	516750
17.	Madhya Pradesh	3177	150	99	0	0	2629000
18.	Maharashtra	1119	910	791	791	0	13693500
19.	Manipur	0	0	0	0	0	0
20.	Meghalaya	0	0	0	0	0	0
21.	Nagaland	0	0	0	0	0	0
22.	Odisha	1812	162	54	6	0	25000
23.	Puducherry	8	4	10	10	0	795000
24.	Punjab	1121	119	183	15	0	24269500
25.	Rajasthan	991	66	107	103	1	1715000
26.	Tamil Nadu	9847	4054	3591	2560	3	23393390
27.	Tripura	12	9	6	6	0	13000
28.	Uttar Pradesh	..	..	..	..	..	..
29.	Uttarakhand	67	38	2	0	0	100000
30.	West Bengal	338	118	103	103	0	2096500
<b>Total</b>		<b>42423</b>	<b>14560</b>	<b>11612</b>	<b>7144</b>	<b>14</b>	<b>106718285</b>

**Note:** (i) There are no registered factories in Arunachal Pradesh, Lakshadweep, Mizoram and Sikkim.  
(ii) P : Provisional (iii) .. : Not Available

**Source:** Data collected by DGFASLI through correspondence with Chief Inspector of Factories of States/ UTs.

**Table 8.9- State-wise Status of Safety Officers (SO) under 40-B (1) in factories during 2013(P)**

Sl. No.	State/Union Territory	Factories Requiring SO	Factories Appointed SO	SO Required	SO Appointed
1.	Andaman & Nicobar Islands	0	0	0	0
2.	Andhra Pradesh	123	112	172	138
3.	Assam	3	3	3	3
4.	Bihar	8	8	9	9
5.	Chandigarh	3	3	0	0
6.	Chhattisgarh	150	136	219	227
7.	Daman & Diu and Dadra & Nagar Haveli	24	27	34	34
8.	Delhi	9	4	9	4
9.	Goa	10	11	12	12
10.	Gujarat	352	269	429	358
11.	Haryana	65	63	68	66
12.	Himachal Pradesh	16	16	16	16
13.	Jammu & Kashmir	..	..	..	..
14.	Jharkhand	67	68	184	165
15.	Karnataka	157	143	191	175
16.	Kerala	46	43	48	45
17.	Madhya Pradesh	110	106	128	121
18.	Maharashtra	407	473	502	580
19.	Manipur	3	3	3	3
20.	Meghalaya	0	0	0	0
21.	Nagaland	0	0	0	0
22.	Odisha	91	83	268	274
23.	Puducherry	9	8	9	8
24.	Punjab	54	47	54	47
25.	Rajasthan	85	79	81	89
26.	Tamil Nadu	283	194	294	256
27.	Tripura	1	0	1	0
28.	Uttar Pradesh	..	..	..	..
29.	Uttarakhand	47	40	47	40
30.	West Bengal	252	131	155	131
<b>Total</b>		<b>2375</b>	<b>2070</b>	<b>2936</b>	<b>2801</b>

**Note:** (i) There are no registered factories in Arunachal Pradesh, Lakshadweep, Mizoram and Sikkim.

(ii) P : Provisional

(iii) .. : Not Available

**Source:** Data collected by DGFASLI through correspondence with Chief Inspector of Factories of States/ UTs.

Table 8.10- State-wise status of Declaration of Safety Policy for the year 2013 (P)

Sl. No.	State/ Union Territory	Factories Requiring	Factories Having
1.	Andaman & Nicobar Islands	0	0
2.	Andhra Pradesh	0	0
3.	Assam	12	12
4.	Bihar	5	5
5.	Chandigarh	0	0
6.	Chhattisgarh	619	508
7.	Daman & Diu and Dadra & Nagar Haveli	58	76
8.	Delhi	610	490
9.	Goa	273	180
10.	Gujarat	5702	5293
11.	Haryana	973	745
12.	Himachal Pradesh	83	83
13.	Jammu & Kashmir	..	..
14.	Jharkhand	340	317
15.	Karnataka	1332	1009
16.	Kerala	586	534
17.	Madhya Pradesh	1417	1403
18.	Maharashtra	4663	3707
19.	Manipur	6	6
20.	Meghalaya	150	150
21.	Nagaland	0	0
22.	Odisha	980	651
23.	Pudduchery	27	27
24.	Punjab	548	432
25.	Rajasthan	167	154
26.	Tamil Nadu	1042	968
27.	Tripura	0	0
28.	Uttar Pradesh	..	..
29.	Uttarakhand	628	628
30.	West Bengal	852	98
<b>Total</b>		<b>21073</b>	<b>17476</b>

**Note:** (i) There are no registered factories in Arunachal Pradesh, Lakshadweep, Mizoram and Sikkim.

(ii) P : Provisional

(iii) .. : Not Available

**Source:** Data collected by DGFASLI through correspondence with Chief Inspector of Factories of States/ UTs.

Table 8.11- State-wise Constitution of Safety Committee for the year 2013(P)

Sl. No.	State/ Union Territory	Factories Requiring Safety Committee	Factories Having Safety Committee
1.	Andaman & Nicobar Islands	0	0
2.	Andhra Pradesh	979	747
3.	Assam	12	12
4.	Bihar	5	5
5.	Chandigarh	0	0
6.	Chhattisgarh	492	431
7.	Daman & Diu and Dadra & Nagar Haveli	62	82
8.	Delhi	123	99
9.	Goa	169	185
10.	Gujarat	5013	4509
11.	Haryana	469	414
12.	Himachal Pradesh	83	83
13.	Jammu & Kashmir	..	..
14.	Jharkhand	153	137
15.	Karnataka	986	741
16.	Kerala	337	268
17.	Madhya Pradesh	688	669
18.	Maharashtra	2637	1830
19.	Manipur	6	6
20.	Meghalaya	75	20
21.	Nagaland	0	0
22.	Odisha	347	144
23.	Puducherry	29	29
24.	Punjab	388	350
25.	Rajasthan	163	153
26.	Tamil Nadu	1696	1516
27.	Tripura	22	1
28.	Uttar Pradesh	..	..
29.	Uttarakhand	518	518
30.	West Bengal	852	98
<b>Total</b>		<b>16304</b>	<b>13047</b>

**Note:** (i) There are no registered factories in Arunachal Pradesh, Lakshadweep, Mizoram and Sikkim.

(ii) P : Provisional

(iii) .. : Not Available

**Source:** Data collected by DGFASLI through correspondence with Chief Inspector of Factories of States/ UTs.

Table 8.12- State-wise On-site Emergency Plan (in respect of MAH Units) as on 2013(P)

Sl. No.	State/ Union Territory	Factories Requiring On-site Emergency Plan	Factories Having On-site Emergency Plan
1.	Andaman & Nicobar Islands	3	3
2.	Andhra Pradesh	158	155
3.	Assam	12	12
4.	Bihar	0	0
5.	Chandigarh	0	0
6.	Chhattisgarh	29	29
7.	Daman & Diu and Dadra & Nagar Haveli	0	21
8.	Delhi	17	17
9.	Goa	17	16
10.	Gujarat	295	295
11.	Haryana	35	34
12.	Himachal Pradesh	8	8
13.	Jammu & Kashmir	..	..
14.	Jharkhand	18	18
15.	Karnataka	334	261
16.	Kerala	45	45
17.	Madhya Pradesh	73	73
18.	Maharashtra	344	340
19.	Manipur	6	6
20.	Meghalaya	1	1
21.	Nagaland	0	0
22.	Odisha	24	24
23.	Puducherry	3	3
24.	Punjab	70	70
25.	Rajasthan	79	79
26.	Tamil Nadu	175	153
27.	Tripura	3	3
28.	Uttar Pradesh	..	..
29.	Uttarakhand	41	40
30.	West Bengal	85	85
<b>Total</b>		<b>1875</b>	<b>1791</b>

**Note:** (i) There are no registered factories in Arunachal Pradesh, Lakshadweep, Mizoram and Sikkim.

(ii) P : Provisional

(iii) .. : Not Available

**Source:** Data collected by DGFASLI through correspondence with Chief Inspector of Factories of States/ UTs.

Table 8.13- State-wise Medical Facilities in factories for the year 2013(P)

Sl. No.	State/Union Territory	Full time MO		Retainership or part-time MO		Factories having Ambulance Van		Factories having Ambulance Rooms	
		Req.	App.	Req.	App.	Req.	App.	Req.	App.
1.	Andaman & Nicobar Islands	1	0	0	0	2	2	2	2
2.	Andhra Pradesh	244	206	0	0	0	0	201	171
3.	Assam	0	0	0	0	0	0	5	5
4.	Bihar	15	14	0	0	26	26	26	26
5.	Chandigarh	0	0	0	0	0	0	0	0
6.	Chhattisgarh	111	104	309	170	126	100	110	95
7.	Daman & Diu and Dadra & Nagar Haveli	1	1	0	75	0	25	0	30
8.	Delhi	14	14	336	241	181	92	26	20
9.	Goa	38	41	54	75	81	80	28	27
10.	Gujarat	328	272	3204	3169	485	478	319	271
11.	Haryana	49	43	92	102	78	81	75	76
12.	Himachal Pradesh	301	301	2178	2178	190	190	190	190
13.	Jammu & Kashmir	..	..	..	..	..	..	..	..
14.	Jharkhand	84	78	56	62	54	61	72	72
15.	Karnataka	307	250	141	139	337	274	329	318
16.	Kerala	34	31	64	65	23	23	43	39
17.	Madhya Pradesh	139	135	284	279	118	113	144	141
18.	Maharashtra	672	425	1420	1085	389	288	556	506
19.	Manipur	1	6	0	0	2	1	2	2
20.	Meghalaya	11	4	138	27	16	2	1	1
21.	Nagaland	0	0	0	0	0	0	0	0
22.	Odisha	102	91	95	231	107	89	105	96
23.	Puducherry	10	8	28	22	9	9	9	9
24.	Punjab	0	0	0	0	0	0	116	107
25.	Rajasthan	82	76	51	51	121	112	137	134
26.	Tamil Nadu	198	172	211	164	242	207	354	320
27.	Tripura	1	1	1	1	0	0	1	1
28.	Uttar Pradesh	..	..	..	..	..	..	..	..
29.	Uttarakhand	9	4	60	60	148	151	49	37
30.	West Bengal	292	91	15	15	303	68	303	82
<b>Total</b>		<b>3044</b>	<b>2368</b>	<b>8737</b>	<b>8211</b>	<b>3038</b>	<b>2472</b>	<b>3203</b>	<b>2778</b>

**Note:** There are no registered factories in Arunachal Pradesh, Lakshadweep, Mizoram and Sikkim

P : Provisional. .. : Not Available

**Req. :** Required **App. :** Appointed

**Source:** Data collected by DGFASLI through correspondence with Chief Inspector of Factories of States/UTs.



Table 8.14- State-wise Canteens, Shelters, Rest Rooms and Creches for the year 2013 (P)

Sl. No.	State/ Union Territory	Canteen		Shelter, Rest Room, Lunch Room		Creches	
		Factories Requiring	Factories Having	Factories Requiring	Factories Having	Factories Requiring	Factories Having
1.	Andaman & Nicobar Islands	3	3	8	8	0	0
2.	Andhra Pradesh	454	402	639	560	451	388
3.	Assam	68	97	68	98	25	38
4.	Bihar	29	31	29	29	0	0
5.	Chandigarh	4	4	4	4	0	0
6.	Chhattisgarh	152	155	283	264	39	21
7.	Daman & Diu and Dadra & Nagar Haveli	75	90	132	156	101	101
8.	Delhi	86	67	150	80	34	17
9.	Goa	53	79	92	92	94	27
10.	Gujarat	..	..	..	..	231	225
11.	Haryana	271	227	382	316	78	65
12.	Himachal Pradesh	327	327	85	85	56	56
13.	Jammu & Kashmir	..	..	..	..	..	..
14.	Jharkhand	87	90	147	140	19	15
15.	Karnataka	625	579	776	724	971	844
16.	Kerala	545	489	1188	1178	808	749
17.	Madhya Pradesh	236	223	514	498	65	59
18.	Maharashtra	1282	1257	1692	1756	479	388
19.	Manipur	6	6	10	10	21	21
20.	Meghalaya	26	26	27	27	7	2
21.	Nagaland	1	1	0	0	0	0
22.	Odisha	156	150	219	204	72	54
23.	Puducherry	32	27	53	40	5	4
24.	Punjab	309	275	425	394	55	52
25.	Rajasthan	345	334	545	538	39	39
26.	Tamil Nadu	1402	1269	2663	2651	3054	2457
27.	Tripura	3	2	3	2	1	0
28.	Uttar Pradesh	..	..	..	..	..	..
29.	Uttarakhand	188	188	321	321	111	104
30.	West Bengal	465	133	679	162	34	18
<b>Total</b>		<b>7230</b>	<b>6531</b>	<b>11134</b>	<b>10337</b>	<b>6850</b>	<b>5744</b>

**Note:** (i) There are no registered factories in Arunachal Pradesh, Lakshadweep, Mizoram and Sikkim.

(ii) P : Provisional

(iii) .. : Not Available

**Source:** Data collected by DGFASLI through correspondence with Chief Inspector of Factories of States/ UTs.

Table 8.15- State-wise Welfare Officers for the year 2013(P)

Sl. No.	State/ Union Territory	Factories Requiring	Factories Having	Officers Required	Officers Appointed
1.	Andaman & Nicobar Islands	2	1	2	1
2.	Andhra Pradesh	196	170	196	175
3.	Assam	11	12	11	12
4.	Bihar	25	25	26	26
5.	Chandigarh	3	3	3	3
6.	Chhattisgarh	104	109	112	120
7.	Daman & Diu and Dadra & Nagar Haveli	44	44	74	74
8.	Delhi	25	25	26	25
9.	Goa	21	15	21	15
10.	Gujarat	223	217	239	235
11.	Haryana	120	716	120	116
12.	Himachal Pradesh	79	79	79	79
13.	Jammu & Kashmir	..	..	..	..
14.	Jharkhand	66	104	104	100
15.	Karnataka	334	326	370	361
16.	Kerala	62	70	65	72
17.	Madhya Pradesh	146	137	160	158
18.	Maharashtra	651	603	750	663
19.	Manipur	1	1	1	1
20.	Meghalaya	1	1	1	1
21.	Nagaland	0	0	0	0
22.	Odisha	95	94	135	130
23.	Puducherry	10	7	10	7
24.	Punjab	115	92	115	92
25.	Rajasthan	172	154	166	159
26.	Tamil Nadu	461	382	478	393
27.	Tripura	1	1	1	1
28.	Uttar Pradesh	..	..	..	..
29.	Uttarakhand	81	71	72	72
30.	West Bengal	324	164	211	164
<b>Total</b>		<b>3373</b>	<b>3623</b>	<b>3548</b>	<b>3255</b>

**Note:** (i) There are no registered factories in Arunachal Pradesh, Lakshadweep, Mizoram and Sikkim.

(ii) P : Provisional

(iii) .. : Not Available

**Source:** Data collected by DGFASLI through correspondence with Chief Inspector of Factories of States/ UTs.

Table 8.16- Notification of Model Rules framed under the Factories (Amendment) Act, 1987(P)

Sl. No.	State/ Union Territory	Model Rules
1.	Andaman & Nicobar Islands	No hazardous unit, hence Rules Not applicable
2.	Andhra Pradesh	Notified
3.	Assam	Notified
4.	Bihar	Notified
5.	Chandigarh	Notified in Punjab Factories Rules
6.	Chhattisgarh	Under process
7.	Daman, Diu, Dadra & Nagar Haveli	Under process
8.	National Capital Territory of Delhi	Notified
9.	Goa	Notified
10.	Gujarat	Notified
11.	Haryana	Notified
12.	Himachal Pradesh	Not Notified
13.	Jammu & Kashmir	Not Notified
14.	Jharkhand	Notified
15.	Karnataka	Notified
16.	Kerala	Notified
17.	Madhya Pradesh	Notified
18.	Maharashtra	Notified
19.	Manipur	Draft submitted for Govt. approval
20.	Meghalaya	Notified
21.	Nagaland	Draft submitted for Govt. approval
22.	Orissa	Notified
23.	Pondicherry	Notified
24.	Punjab	Notified
25.	Rajasthan	Notified
26.	Tamil Nadu	Notified
27.	Tripura	Notified
28.	Uttar Pradesh	Notified
29.	Uttaranchal	Not Notified
30.	West Bengal	Notified

**Note:** (i) There are no registered factories in Arunachal Pradesh, Lakshadweep, Mizoram and Sikkim.

(ii) P : Provisional

(iii) .. : Not Available

**Source:** Data collected by DGFASLI through correspondence with Chief Inspector of Factories of States/ UTs.

**Table 8.17- Notification of Major Accidents Hazard Control Rules (P)**

Sl. No.	State/ Union Territory	MAHC Rules, 1997
1.	Andaman & Nicobar Islands	No hazardous unit, hence Rules Not applicable
2.	Andhra Pradesh	Notified
3.	Assam	Notified
4.	Bihar	Notified
5.	Chandigarh	Notified
6.	Chhattisgarh	..
7.	Daman, Diu, Dadra & Nagar Haveli	Notified
8.	National Capital Territory of Delhi	Notified
9.	Goa	Notified
10.	Gujarat	Notified
11.	Haryana	Notified
12.	Himachal Pradesh	Not Notified
13.	Jammu & Kashmir	Not Notified
14.	Jharkhand	Notified
15.	Karnataka	Notified
16.	Kerala	Notified
17.	Madhya Pradesh	Notified
18.	Maharashtra	Notified
19.	Manipur	Draft Rules submitted for approval of state Govt.
20.	Meghalaya	Notified
21.	Nagaland	Not Notified
22.	Orissa	Notified
23.	Pondicherry	Draft notification under consideration of Govt.
24.	Punjab	Notified
25.	Rajasthan	Notified
26.	Tamil Nadu	Notified
27.	Tripura	Notified
28.	Uttar Pradesh	Notified
29.	Uttaranchal	Notified
30.	West Bengal	Draft sent for notification

**Note:** (i) There are no registered factories in Arunachal Pradesh, Lakshadweep, Mizoram and Sikkim.

(ii) P : Provisional

(iii) .. : Not Available

**Source:** Data collected by DGFASLI through correspondence with Chief Inspector of Factories of States/ UTs.

## 9

**Statistics on Occupational Safety & Health in Ports**

DGFASLI is enforcing the Dock Workers (Safety, Health & Welfare) Act, 1986 and Regulations 1990 in all the major ports of the country. The Inspectorate of Dock Safety offices located in the major ports enforce the Act and Regulations. Under Regulations 91(1) & (6) it is obligatory on the part of the Employers of the Dock Workers to report the accidents/ dangerous occurrences to the Inspectorates.

Important Statistics on Occupational Safety & Health in the major Ports of the country for the year 2014 are given in the subsequent tables:

**Table 9.1- Reportable Accidents & Dangerous Occurrences in major Ports during the Year 2014**

Sl. No.	Port	Fatal	Total	Dangerous Occurrences
1.	Mumbai	02	30	00
2.	JNPT	00	10	05
3.	Kandla	02	13	05
4.	Mormugao	00	02	00
5.	Kolkata	01	09	00
6.	Paradip	00	02	00
7.	Vishakhapattanam	00	02	00
8.	Chennai	00	01	00
9.	Kochi	00	06	00
10.	New Mangalore	00	00	00
11.	Tuticorin	00	01	00
<b>Total</b>		<b>05</b>	<b>76</b>	<b>10</b>

**Table 9.2-Statistics of Employment & Rates of Reportable Accidents in major Ports during the year 2014**

Sl. No.	Port	Avg. Daily Employment	*Frequency Rate		*Incidence Rate of injuries per Thousand	
			Fatal	Total	Fatal	Total
1.	Mumbai	1368	0.90	13.54	1.46	21.93
2.	JNPT	6635	0.00	0.20	0.00	1.50
3.	Kandla	4106	0.17	1.09	0.49	3.17
4.	Mormugao	1024	0.00	2.44	0.00	1.95
5.	Kolkata	7065	0.45	0.44	0.14	1.27
6.	Paradip	279	0.00	2.47	0.00	7.17
7.	Vishakhapattanam	2057	0.00	5.01	0.00	1.02
8.	Chennai	1020	0.00	0.34	0.00	0.98
9.	Kochi	297	0.00	6.97	0.00	20.18
10.	New Mangalore	154	0.00	0.00	0.00	0.00
11.	Tuticorin	291	0.00	1.19	0.00	3.44

\* Formula (As per IS: 3786 of 1983)

Frequency Rate = No. of Reportable Accidents X 1,000,000/Man-hours Worked#.

Incidence Rate = No. of Reportable Accidents X 1000/ Avg. No. of Persons Employed.

# Man-hours worked are calculated on the basis of 362 working days in a year

**Table 9.3-Classification of Reportable Accidents in Major Ports – According to Agency for the Year-2014**

AGENCY	Mumbai	JNPT	Kandla	Mormugao	Kolkata	Paradip	Vishakhapattanam	Chennai	Kochi	New Mangalore	Tuticorin	Total
I. Lifting appliances	00	03	01	00	02(1)	00	01	00	00	00	00	<b>07(1)</b>
II. Loose gear & Ropes	06	00	01	00	00	00	00	00	01	00	00	<b>08(0)</b>
III. Unitised & Break bulk cargo	09	00	01(01)	01	02	00	01	00	04	00	00	<b>18(1)</b>
IV. Bulk cargo	00	00	00	00	01	00	00	00	00	00	00	<b>01(0)</b>
V. Electrical equipment	00	00	00	00	00	00	00	00	00	00	00	<b>00(0)</b>
VI. Tools & Implements	00	00	00	00	00	00	00	00	00	00	00	<b>00(0)</b>
VII. Means of Access	05(1)	00	00	00	00	01	00	00	00	00	00	<b>06(1)</b>
VIII. Means of Transportation	08(1)	07	09(01)	01	03	01	00	01	01	00	01	<b>32(2)</b>
IX. Other agencies	02	00	01	00	01	00	00	00	00	00	00	<b>04(0)</b>
<b>TOTAL</b>	<b>30(2)</b>	<b>10(0)</b>	<b>13(2)</b>	<b>02(0)</b>	<b>09(1)</b>	<b>02(0)</b>	<b>02(0)</b>	<b>01(0)</b>	<b>06(0)</b>	<b>00(0)</b>	<b>01(0)</b>	<b>76(5)</b>

Note: Figures in brackets indicate Fatal Accidents.

**Table 9.4- Classification of Reportable Accidents in Major Ports – According to Type for the Year-2014**

TYPE	Mumbai	JNPT	Kandla	Mormugao	Kolkata	Paradip	Vishakha pattanam	Chennai	Kochi	New Mangalore	Tuticorin	Total
I. Fall of persons	10(2)	00	01	01	03(1)	01	01	00	01	00	00	<b>18(3)</b>
II. Fall of objects	02	00	01	01	02	00	00	00	02	00	00	<b>08(0)</b>
III. Stepping on, striking against or struck by objects excluding falling objects.	17	09	08(01)	00	03	01	00	01	03	00	01	<b>43(1)</b>
IV. Caught in or between	01	01	03(01)	00	00	00	01	00	00	00	00	<b>06(1)</b>
V. Over exertion or wrong movement	00	00	00	00	00	00	00	00	00	00	00	<b>00(0)</b>
VI. Exposure to or contact with extreme temperature	00	00	00	00	00	00	00	00	00	00	00	<b>00(0)</b>
VII. Exposure to or contact with electric current	00	00	00	00	00	00	00	00	00	00	00	<b>00(0)</b>
VIII. Exposure to or contact with dangerous goods	00	00	00	00	01	00	00	00	00	00	00	<b>01(0)</b>
IX. Explosion	00	00	00	00	00	00	00	00	00	00	00	<b>00(0)</b>
X. Others	00	00	00	00	00	00	00	00	00	00	00	<b>00(0)</b>
<b>TOTAL</b>	<b>30(2)</b>	<b>10(0)</b>	<b>13(02)</b>	<b>02(0)</b>	<b>09(1)</b>	<b>02(0)</b>	<b>02(0)</b>	<b>01(0)</b>	<b>06(0)</b>	<b>00(0)</b>	<b>01(0)</b>	<b>76(5)</b>

Note: Figures in brackets indicate Fatal Accidents.



**Table 9.5- Details of Inspections and other visits in Major Ports during the Year 2014**

Sl. No.	Port	Ship	Docks	Gear	Isolated Storage/ Pipelines	Other Visits
1.	Mumbai	135	19	133	00	220
2.	JNPT	43	41	01	00	20
3.	Kandla	105	59	110	03	75
4.	Mormugao	71	42	76	04	28
5.	Kolkata	104	60	72	10	72
6.	Paradip	66	24	66	11	50
7.	Vishakhapattanam	62	02	62	02	47
8.	Chennai	239	223	203	05	305
9.	Kochi	19	124	14	00	29
10.	N. Mangalore	75	60	80	00	132
11.	Tuticorin	101	39	90	04	07
<b>Total</b>		<b>1020</b>	<b>693</b>	<b>907</b>	<b>39</b>	<b>985</b>

**Table 9.6- Details of Prosecution in Major Ports during the Year 2014**

Sl. No.	Port	Pending From Previous Year	Launched during the year	Decided during the year	Convicted
1.	Mumbai	01	01	00	00
2.	JNPT	00	00	00	00
3.	Kandla	10	03	00	00
4.	Mormugao	00	00	00	00
5.	Kolkata	04	00	01	00
6.	Paradip	02	01	00	00
7.	Vishakhapattanam	05	00	00	00
8.	Chennai	06	01	01	01
9.	Kochi	01	01	00	00
10.	New Mangalore	00	00	00	00
11.	Tuticorin	00	00	00	00
<b>Total</b>		<b>29</b>	<b>07</b>	<b>02</b>	<b>01</b>

**Table 9.7- Investigation into Reportable Fatal Accidents/Dangerous Occurrences in 2014**

Sl. No.	Port	Pending from Previous Year	Initiated during the year	Concluded during the year
1.	Mumbai	02	02	01
2.	JNPT	00	00	00
3.	Kandla	02	06	01
4.	Mormugao	01	00	00
5.	Kolkata	05	02	05
6.	Paradip	00	00	00
7.	Vishakhapattanam	00	02	00
8.	Chennai	05	00	05
9.	Kochi	00	00	00
10.	New Mangalore	01	00	00
11.	Tuticorin	01	01	01
<b>Total</b>		<b>17</b>	<b>13</b>	<b>13</b>

**Table 9.8- Dock Safety Committee Meetings conducted/Safety Weeks celebrated in 2014**

Sl. No.	Port	Committee Meeting	Safety Weeks
1.	Mumbai	04	00
2.	JNPT	04	10
3.	Kandla	04	00
4.	Mormugao	03	00
5.	Kolkata	04	02
6.	Paradip	02	01
7.	Vishakhapattanam	02	01
8.	Chennai	04	00
9.	Kochi	03	01
10.	N. Mangalore	04	01
11.	Tuticorin	04	01
<b>Total</b>		<b>38</b>	<b>17</b>

**Table 9.9- Total Number of Ships Called in the Major Ports during 2013 and 2014**

Sl. No.	Port	Total Nos. of Ships Called			
		Oil Tankers		Others	
		2013	2014	2013	2014
1.	Mumbai	1076	991	3723	3611
2.	JNPT	483	521	3237	3302
3.	Kandla	829	756	1011	874
4.	Mormugao	110	123	267	362
5.	Kolkata	1073	1160	2145	2065
6.	Paradip	326	325	1108	1107
7.	Vishakhapatnam	589	643	1452	1392
8.	Chennai	254	254	1584	1563
9.	Kochi	373	351	1021	1084
10.	New Mangalore	511	455	561	578
11.	Tuticorin	192	188	974	1100
<b>Total</b>		<b>5816</b>	<b>5767</b>	<b>17083</b>	<b>17038</b>

**Table 9.10- Cargo Handled in Major Ports during 2013 and 2014**

Sl. No.	Port	Cargo Handled					
		Container in TEU's		POL (Tons)		Others (Tons)	
		2013	2014	2013	2014	2013	2014
1.	Mumbai	41549	46025	35099042	36341805	22492325	25365745
2.	JNPT	4123299	4473019	17842790	20287090	787241	705506
3.	Kandla	63452	00	8948000	8740000	28640000	29055000
4.	Mormugao	18862	22940	565528	544554	10762644	12855773
5.	Kolkata	596484	562020	7388	6815	32756	34571
6.	Paradip	9264	5453	17862967	17310739	48504058	53357437
7.	Vishakhapatnam	95401	110211	2261716	2385843	58230000	57050000
8.	Chennai	1487570	1534674	13173234	12689515	38431563	40099930
9.	Kochi	343931	361110	14248374	13372819	6300319	7320791
10.	N. Mangalore	50232	59769	25020000	24260000	14304000	11980000
11.	Tuticorin	493963	546389	563593	546823	27968766	30180540
<b>Total</b>		<b>7324007</b>	<b>7721610</b>	<b>135592632</b>	<b>136486003</b>	<b>256453672</b>	<b>268005293</b>

**Table 9.11- Safety Facilities in Major Ports during the year 2014**

Sl. No.	Port	Safety Facilities		
		No. of Safety Officers	No. of Visits to Safety Exhibition Centers	No. of Competent persons
1.	Mumbai	03	00	39
2.	JNPT	13	07	02
3.	Kandla	01	00	06
4.	Mormugao	01	00	03
5.	Kolkata	02	00	24
6.	Paradip	01	00	04
7.	Vishakhapattanam	01	00	13
8.	Chennai	01	00	06
9.	Kochi	01	00	02
10.	New Mangalore	01	01	04
11.	Tuticorin	02	00	08
<b>Total</b>		<b>27</b>	<b>08</b>	<b>111</b>

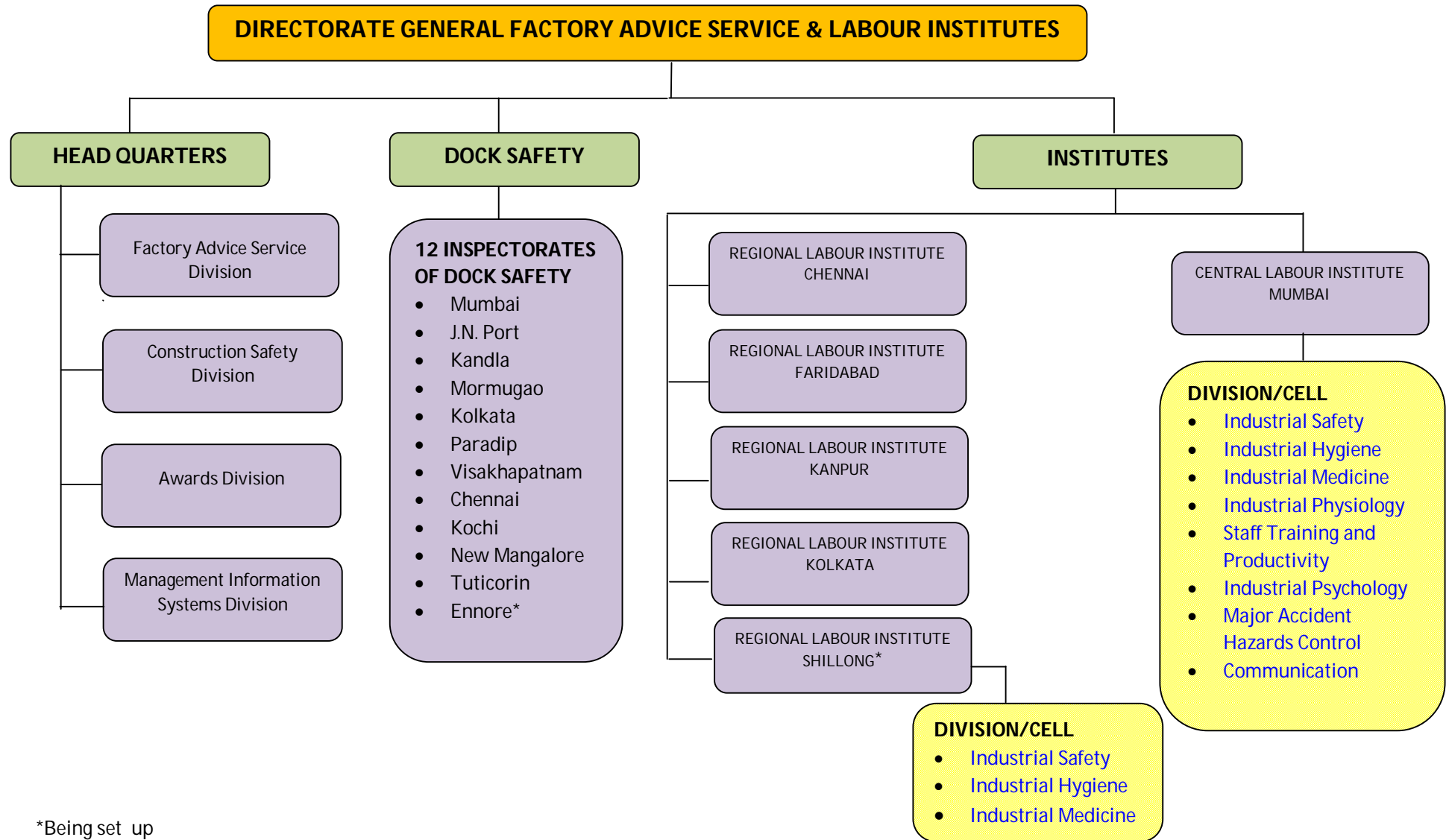
**Table 9.12- Health Facilities in Major Ports during the year 2014**

Sl. No.	Port	Health Facilities			
		OSH Centers	Ambulance Rooms	First Aid Centers	Empanelled Doctors
1.	Mumbai	01	02	92	05
2.	JNPT	03	02	36	12
3.	Kandla	00	04	01	25
4.	Mormugao	01	01	01	01
5.	Kolkata	02	04	16	01
6.	Paradip	01	02	03	00
7.	Vishakhapattanam	00	01	01	03
8.	Chennai	01	01	05	00
9.	Kochi	01	01	04	01
10.	New Mangalore	01	03	03	02
11.	Tuticorin	01	03	03	00
<b>Total</b>		<b>12</b>	<b>24</b>	<b>165</b>	<b>50</b>

Table 9.13 Welfare Facilities in Major Ports during the year 2014

Sl. No.	Port	Welfare Facilities				
		No. of Welfare Officers	Canteens	Drinking Water	Washing	Urinals
1.	Mumbai	04	16	10	112	548
2.	JNPT	06	06	51	83	237
3.	Kandla	01	02	08	32	32
4.	Mormugao	01	07	12	47	45
5.	Kolkata	02	13	283	194	161
6.	Paradip	01	04	28	08	20
7.	Vishakhapatnam	01	02	05	05	10
8.	Chennai	06	13	171	50	50
9.	Kochi	01	04	16	19	42
10.	New Mangalore	01	04	09	09	39
11.	Tuticorin	00	06	07	05	10
<b>Total</b>		<b>24</b>	<b>77</b>	<b>600</b>	<b>564</b>	<b>1194</b>

**ORGANISATION CHART**



\*Being set up

## APPENDIX - II

## Address of DGFASLI and its Subordinate Offices

<p><b>Directorate General Factory Advice Service &amp; Labour Institutes, Mumbai</b> N.S.Mankikar Marg, Sion, Mumbai-400 022. PBX No.91-22-24074538 Fax: 022-24071986 e-mail: <a href="mailto:fasli@dglasli.nic.in">fasli@dglasli.nic.in</a></p>	<p><b>Central Labour Institute, Mumbai</b> N.S.Mankikar Marg, Sion, Mumbai-400 022. PBX No.91-22-24074538 Fax: 022-24071986 e-mail: <a href="mailto:cli@dglasli.nic.in">cli@dglasli.nic.in</a></p>
<p><b>Regional Labour Institute, Kanpur</b> Sarvoday Nagar, Kanpur-208 005 Tel: 0512-2218691,2218692, 2218745 Fax : 0512-2215112 e-mail: <a href="mailto:rlikanpur5@gmail.com">rlikanpur5@gmail.com</a></p>	<p><b>Regional Labour Institute, Kolkata</b> Lake Town, Kolkata-700 089 Tel: 033-25342732, 25342735, 25343254 Fax: 033 – 25348182 e-mail: <a href="mailto:rlikol@vsnl.net">rlikol@vsnl.net</a></p>
<p><b>Regional Labour Institute, Chennai</b> Sardar Patel Road, Adyar, TTTI PO, Chennai-600113 Tel: 044-22350737, 22351569, 22355690 FAX : 044- 22352457 e-mail: <a href="mailto:rlic@vsnl.net">rlic@vsnl.net</a></p>	<p><b>Regional Labour Institute, Faridabad</b> Sector 47, Faridabad- 121003 Haryana . Tel: 0129-2468022 FAX : 0129-2437064 e-mail: <a href="mailto:rlifaridabad@yahoo.co.in">rlifaridabad@yahoo.co.in</a></p>
<p><b>Inspectorate of Dock Safety, Mumbai</b> Operation Service Centre, 3rd Floor, P. D' mello Rd., Mumbai-400 038 Tel: 022-22613391, 22692180 Fax : 022 – 22613391 e-mail: <a href="mailto:idsmumbaigov@gmail.com">idsmumbaigov@gmail.com</a></p>	<p><b>Inspectorate Dock Safety, J. N. Port</b> A 7/6 Sector 3, JNPT Township, Navi Mumbai-400707 Tel: 022-27245099, 27240461 e-mail: <a href="mailto:idsjnport@gmail.com">idsjnport@gmail.com</a></p>

<p><b>Inspectorate Dock Safety, Kandla</b> Near Bunder Gate, Kandla Port , New Kandla ,Post Box No. 18 District- Kutch—370210, Gujrat Tel: 02836 - 270249 Fax: 02836 - 270249 e-mail: idskandla@sancharnet.in</p>	<p><b>Inspectorate Dock Safety, Goa</b> Civil Maintenance Office Building, Murmugao, Goa- 403804 Tel: 0832-2520751 Fax: 0832-2520752 e-mail: idsgoa@gmail.com</p>
<p><b>Inspectorate Dock Safety, Kolkata</b> Nizam Palace, 1<sup>st</sup> floor, 2<sup>nd</sup> M.S.O. Building, 234/4, A.J.C. Bose Road, Kolkata-700 020. Tel: 033-22830718, 22830719 Fax : 033 – 22830718 e-mail: idskol@rediffmail.com</p>	<p><b>Inspectorate Dock Safety, Paradip</b> Badapadia, P.B. No.126, District- Paradip, Jagatsinghpur, Odisha – 754142. Tel : 06722-222413 Fax : 06722- 222413 e-mail: idsparadip@gmail.com</p>
<p><b>Inspectorate Dock Safety, Visakhapatnam</b> Old D.L.B. Building, 1st Floor, Opp. Harbour Main Gate Building, Port Area, Visakhapatnam-530 035 Tel: 0891-2563857 Fax : 0891-2563857 e-mail: idsvizag35@gmail.com</p>	<p><b>Inspectorate Dock Safety, Chennai</b> 3<sup>rd</sup> Floor, Anchor Gate Building, Rajaji Salai, Chennai - 600 001. Tel: 044-25220888, 25246419 Fax: 044 – 25220888 e-mail: docksafetychennai@gmail.com idschennai@yahoo.in</p>
<p><b>Inspectorate Dock Safety, Cochin</b> C.D.L.B. Dispensary Building, G.V. Ayyar Rd, Willington Island, Cochin-682003 Tel: 0484 – 2666532 Fax : 0484 – 2666532 e-mail: docksafety9@gmail.com idscochin@dataone.in</p>	<p><b>Inspectorate Dock Safety, New Mangalore</b> New Mangalore Port, Panambur, New Mangalore-575010 Tel: 0824-2407781 Fax: 0824-2407781 e-mail: docksafetymangalore@rediffmail.com</p>
<p><b>Inspectorate Dock Safety, Tuticorin</b> Tuticorin Port Trust, Admn. Office Building, Post. Box No.4, Harbour Estate, Tuticorin-628004 Tel: 0461- 2352372 Fax: 0461-2352372 e-mail: docksafety559@gmail.com</p>	<p><b>Inspectorate of Dock Safety, Ennore</b> (Being setup) Operated from Inspectorate Dock Safety, Chennai</p>