

3. WORKING CONDITIONS AND SAFETY

A. FACTORIES AND DOCKS:

PLAN SCHEMES OF DGFASLI

11th Five Year Plan

During the year 2011-12 DGFASLI operated two Plan Schemes

1. Strengthening of DGFASLI organization and OSH in Factories & Ports
2. Establishment of Regional Labour Institute at Faridabad.

12th Five Year Plan

From the Year 2012-13 DGFASLI would be operating the following four schemes

1. Strengthening of DGFASLI Organisation and OSH in Factories and Ports,
2. Development of Regional Labour Institute, Faridabad as Centre of Excellence in Safety Systems in MSME and Chemical Process Units.
3. Identification, Elimination and Control of Silicosis and Asbestos in India and
4. Establishment of Regional Labour Institute, Shillong (NER)

Plan Scheme –I: Strengthening of DGFASLI organization and OSH in Factories & Ports

Objective: 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.

Sl. No	Activities	2011-12		2012-13		2013-14
		Targets	Achievement	Targets	Achievement (April to Dec.2012)	Forecast Targets
1.	Upgradation of various laboratories at CLI & RLIs	To be spread over the entire plan period	15 scientific equipments for various labs.	To be spread over the entire plan period	-	*
2.	a) Development of National Inventory on OSH information and follow up	4	6	*	-	4
	b) Upgradation and development of databases	*	14	*	10	*
	c) Development of Application Programmes	*	6	*	6	*
	d) Material Safety Data Sheet (MSDS) on request	*	6	*	4	*
	e) Industry-wise safety and health information	2	52	*	70	2
	f) INDOSHNEWS Publication	4	3	4	4	4
	g) Publication of Manuals, brochures,	2	11	1	31	2
3.	Implementation of minimum agenda for e-Governance	*	30	*	*	*
4.	Conduction of specialized training programmes, seminars, workshops	25	48	25	26	25
5.	Conduction of studies/surveys/audits	25	24	25	19	25
6.	Enforcement activities in major ports (inspection of ships, container ship, loose gears, docks, container yards, hazardous installations, etc.)	1500	1520	1500	1213	1500
7.	Testing of Respiratory & Non Respiratory PPE carried out	700	800	700	1037	700
8.	Production of video films	As per the requirements	Nil	As per the requirements	*	*
9.	Procurement of audio-visual and communication equipment & software for production of video films, posters, etc.	To be spread over the entire plan period	-	To be spread over the entire plan period	-	*

* Can not be quantified

Plan Scheme – II Development of Regional Labour Institute, Faridabad as Centre of Excellence in Safety Systems in MSME and Chemical Process Units.

Objective: Development of National Training Center, National Research Center and National Awareness Center for carrying out the Technical activities of the Center of Excellence. To develop wide spectrum Door-step Facility to impart knowledge, skills and develop awareness among the work-force and owner-managers of MSMEs.

PHYSICAL TARGETS AND ACHIEVEMENTS

S.No.	Activities	(2011-12)		2012-13		2013-14
		Target	Achievements	Target	Achievements	Forecast Targets
					(Up to Dec.2012)	
1.	Creation of posts	-	-		-	-
2.	Setting up of Centers / Laboratories *	1	-	-	-	-
3.	Studies/surveys/ Audits	4	3	4	2	4
4.	Short and long duration programmes	8	5	8	5	8
5.	One year post Diploma course	1	1	1	1 (continuing)	1
6.	Training programme for small & Medium enterprises	2	-	2	1	2
7.	Inplant Training**	2	2	2	1	2
8.	National Seminar/ conference /Workshop	2	2	2	2	2
9.	Publications/ Film	1	1	2	1	2
10.	Posters for creating awareness	4	4	2	2	2

NON PLAN SCHEMES

Non Plan Scheme I: Coordination of administration of the Factories Act, 1948 and Enforcement of dock safety statutes

Objectives:

- Coordination with State Inspectorates of Factories in Enforcement of the Factories Act, 1948 & the Rules made thereunder.
- Co-operating with International agencies like ILO, WHO, UNDP and advising Central Government in the adoption of international standards concerning safety and health.
- Rendering advice and carrying out support research activities for the administration of the Factories Act, 1948 and the Dock Workers (Safety, Health and Welfare) Act, 1986.
- 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.
- Conducting promotional activities by operating schemes for recognition of good suggestions under Vishwakarma Rashtriya Puraskar and good safety performance under National Safety Awards on behalf of the Ministry.

PHYSICAL TARGETS AND ACHIEVEMENTS

Sl. No.	Activities	2011-12		2012-13	
		Targets	Achievement	Targets	Achievement Up to Dec.2012
1.	Coordination of administration of the Factories Act, 1948	#	Comments/ Clarifications given	#	Comments/ Clarifications given
2.	Conference of CIFs/ Inspectors of Dock Safety	2	2	2	1
3.	National Seminars/ Workshops/ Advisory Committee Meetings	3	2	3	2
4.	Inspections of Ships, Docks, Gears and Hazardous Installations & other visits in ports	1500	1522	1500	1672
5.	Accident/DO Investigation at ports (Concluded)	#	36	#	29
6.	Issuing approval to flameproof electrical enclosures.	#	10 Flameproof equipments	#	46 Flameproof equipments
7.	Operating VRP & NSA Awards Schemes	Awards function	Awards function was held	Awards function	Awards function was held

Can not be quantified

Non Plan Scheme II: Research & Training (CLI & RLIs)

Objectives:

- Educating and training employers and employees on matters relating to safety and health.
- Training of foreign nationals and rendering expert advice to developing countries.
- Building Competence of enforcement agencies.
- Consultancy studies
- Rendering other services

PHYSICAL TARGETS AND ACHIEVEMENTS

Sl. No.	Activities	2011-12		2012-13	
		Targets	Achievement	Targets	Achievement up to Dec 2012
1.	Special Training programmes including Seminar/Workshop	13	23	13	55
2.	Professional programmes	10	10	10	10
3.	Studies and surveys	24	48	24	17
4.	Short duration & Appreciation programmes	68	256	70	239

6. PROMOTIONAL ACTIVITIES

(a) Prime Minister's Shram Awards (PMSA)

The prime Minister's Shram Awards (PMSA) Scheme was instituted in 1985, for the workers (as defined in industrial Dispute Act, 1947) in recognition of outstanding contribution in organizations both in public sector 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. Public and private sector organizations employing 500 or more workers are eligible to participate in this scheme.

There are total 33 awards to be shared by both public and private sector organizations. The awards, in order of precedence, are Shram Ratna, Shram Bhushan, Shram Vir/Veerangana and Shram Shree/Devi. The recognition consists of a Sanad and cash award of ₹ 2 Lakhs (1 award), ₹ 1 Lakh each (4 awards), ₹ 60,000/- each (12 awards) and ₹ 40,000/- each (16 awards) respectively.

The DGFASLI on behalf of the Ministry of Labour & 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 1970 and again in the year 1977. The schemes presently in operation are as under:

- 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, docks, construction sites and nuclear installations. Applications for the awards under this Scheme are invited every year and these are forwarded by the management on behalf of the workers. Prizes are grouped in three classes i.e. CLASS (A) – 5, CASH AWARD OF ₹ 75,000/- EACH, CLASS (B) – 8, CASH AWARD OF ₹ 50,000/- EACH AND CLASS (C) – 15, CASH AWARD OF ₹ 25,000/- EACH.
- ii) National Safety Awards: National Safety Awards are given in recognition of good safety performance on the part of the industrial establishments registered under the Factories Act, 1948, the employers covered under the Dock Worker (Safety, Health and Welfare) Act, 1986 and Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996 and installations under the Atomic Energy Regulatory Board (AERB) Shields and Citation Certificates are awarded to Winners and Runners up. Schemes I to X are meant for factories, constructions sites and Installations under AERB and Schemes XI and XIII are for Ports.

The Awards distribution function:

The Awards Presentation function for Vishwakarma Rashtriya Puraskar & National Safety Awards (PY-2010) was organised on 17th September, 2012 at Vigyan Bhavan, New Delhi. The 118 Vishwakarma Rashtriya Puraskar & 123 National Safety Awards were given away by Hon'ble Union Minister for Labour & Employment Shri Mallikarjun Khargeji. For the performance year 2009, 162 applications in respect of VRP and 233 applications in respect of NSA have been received by DGFASLI.

B. Mines

The Mines Act, 1952 and the Regulations and Rules made there under constitute the statutory base for regulating safety, health, welfare and working conditions of persons employed in mines throughout India. The Directorate General of Mines Safety has been entrusted with the function of enforcing the provisions of the Mines Act, 1952 and the Rules and Regulations framed there under, including the Mines Rules, the Mines Rescue Rules and the Mines Vocational Training Rules in respect of all Mines and the Crèche Rules in respect of Non-Coal Mines.

The Officers of the Directorate are empowered as Inspectors of Mines under the Mines Act, 1952. They have also been given certain responsibilities under allied legislations like the Coal Mines (Conservation and Development) Act, 1974, the Land Acquisition (Mines) Act, 1985, the Factories Act, 1948 and the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 besides the Indian Electricity Act, 1910 and the Indian Electricity Rules, 1955 framed there under. The Inspectors conduct/undertake regular Inspections, besides inquiring into all fatal accidents and some of the serious accidents depending upon the nature of the accident and the gravity of the situation. These inquiries serve the dual purpose of identifying the causes and responsibilities for the accidents and formulating remedial measures to prevent recurrence of similar mishaps.

Current functions of DGMS broadly include:

1. Inspection of mines
2. Investigation into
 - (a) Accidents
 - (b) Dangerous occurrences – emergency response
 - (c) Complaints & other matters
3. (a) Grants of
 - (i) Statutory permission, exemptions & relaxations – pre-view of project reports & mining plans
 - (ii) Approval of mines safety equipment, material & appliances
 - (b) Interactions for development of safety equipment, material and safe work practices through workshop etc.
 - (c) Development of Safety Legislation & Standards

(d) Safety Information Dissemination

4. Conduct of examinations for grant of competency certificates.

5. Safety promotional initiatives including:

(a) Organisation of:

- Conferences on safety in mines
- National Safety awards
- Safety weeks & Campaigns

(b) Promoting:

- Safety education and awareness programmes
- Workers participation in safety management through-
- Workmen's inspector
- Safety committee
- Tripartite reviews

The various activities to carry out the functions of DGMS include:

A. Non-plan

1. DGMS Non-plan (Main)
2. Examination

B. Plan schemes

1. "Mine Accident Analysis and Modernization of Information Database (MAMID)"
2. Strengthening of Infrastructure Facilities and Core Functions of DGMS (SOCFOD)
3. e-DGMS (New Plan scheme proposed under 12th Plan)

Review of Past Performance

A. (1) DGMS Non-Plan (Main)

FINANCIAL REQUIREMENTS:

(Amount in thousands)

Activity classification	Actual Expenditure 2011-12	B.E. 2012-2013	Expenditure upto DEC., 2012	B.E. 2013-2014
DGMS (Main)	3279.92	3304.25	2984.37	4622.90

The above provisions represent the expenditure on Salary, Travel Expenses, Allowances, Office Expenses and other connected expenditure. The Directorate General of Mines Safety has its headquarters at Dhanbad (Jharkhand) and is headed by the Director General of Mines Safety. At the headquarters, the Director General is assisted by specialist staff-Officers in Mining, Electrical & Mechanical engineering, occupational Health, law, Statistics, Administration, Budget and Accounts disciplines.

Apart from Head Office set-up at Dhanbad, there are Eight Zonal, Twenty-nine Regional and three sub-Regional Offices situated at different places in the country.

The table below shows physical performance during 2011-12, 2012-13 (from April 2012 to Dec., 2012) and Programme target for 2013-14 in connection with implementation of the Mines Act, 1952.

Statement of Outlays & Outcomes during 2011-12

Outlays 2011-12	Achievment/Output									Outcomes	Remarks	
	No. of Inspections made				No.of Enquiries made				Meeting/visits			TOTAL
Discipline	Coal	Metal	Oil	Total	Coal	Metal	Oil	Total			1.A total of 5353 different areas of mines were inspected resulting into improvement in working condition and safety in these areas. 2. A total of 1122 enquiries were made for taking appropriate remedial measures to avoid similar errors.	Targets were completed
Mining	1909	2707	162	4778	641	342	64	1047				
Electrical	249	31	35	315	7	3	0	10				
Mechanical	115	33	0	148	29	1	0	30				
Occupational Health	110	2	0	112	35	0	0	35				
Total	2383	2773	197	5353	712	346	64	1122	1346	7821		

Statement of Outlays & Outcomes during 2012-13*

Outlays 2012-13	Achievement/Output										Outcomes	Remarks
	No. of Inspections made				No. of Enquiries made				Meeting/visits	TOTAL		
Discipline	Coal	Metal	Oil	Total	Coal	Metal	Oil	Total				
Mining	2241	2739	198	5178	681	440	23	1144			1. A total of 4548 different areas of mines were inspected resulting into improvement in working condition and safety in these areas. 2. A total of 992 enquiries were made for taking appropriate remedial measures to avoid similar errors.	Targets were completed
Electrical	298	23	16	337	5	4	0	9				
Mechanical	140	22		162	19	0	0	19				
Occupational Health	89	1		90	16	0	0	16				
Total	2768	2785	214	5767	721	444	23	1188	676	7631		

* Data up to December 2012.

Projected Target –2011 to 2012				Projected outcome
	No. of Inspection	Total no. of Enquiries	Total	
Mining	6244	1307	7551	Improvement in safety standards and working condition in 9700 areas of the mines.
Electrical	1385	49	1434	
Mechanical	500	90	590	
Occupational health	86	39	125	
Total	8215	1485	9700	

* Target is based on prescribed inspection norms of the Inspecting officers and the number of Inspecting officers as on 01.01.2012.

Overall performance towards safety:

Statement showing the safety performance of Coal and Non-coal mines is given below:

Year	No. of accidents		No. of persons		Death rate per 1000 persons employed	Serious injury rate per 1000 persons employed
	Fatal	Serious	Killed	Seriously injured @		
1	2	3	4	5	6	7
COAL MINES						
1992	165	810	183	894	0.33	1.62
1993	156	854	176	903	0.32	1.65
1994	156	717	241	775	0.46	1.48
1995	137	757	219	813	0.43	1.58
1996	131	677	146	723	0.29	1.43
1997	143	677	165	725	0.33	1.44
1998	128	523	146	560	0.30	1.14
1999	127	595	138	650	0.29	1.37
2000	117	661	144	707	0.31	1.54
2001	105	667	141	720	0.31	1.57
2002	81	629	97	665	0.23	1.57
2003	83	563	113	590	0.27	1.42
2004	87	962	96	991	0.24	2.45
2005	96	1106	117	1138	0.29	2.85
2006	78	861	137	891	0.36	2.31
2007	76	923	78	951	0.21	2.51
2008	80	686	93	709	0.25	1.92
2009*	86	636	96	660	0.26	1.79
2010*	97	478	117	509	0.32	1.38
2011*	70	446	71	463	0.19	1.25

* Data for 2009, 2010 and 2011 are provisional.

@ Including serious injuries of fatal accidents

Year	No. of accidents		No. of persons		Death rate per 1000 persons employed	Serious injury rate per 1000 persons employed
	Fatal	Serious	Killed	Seriously injured @		
1	2	3	4	5	6	7
METALLIFEROUS MINES						
1992	64	259	74	282	0.36	1.39
1993	51	286	66	301	0.33	1.51
1994	57	225	80	239	0.42	1.25
1995	58	250	66	260	0.35	1.38
1996	63	235	73	255	0.41	1.45
1997	68	246	75	262	0.43	1.52
1998	50	234	58	252	0.35	1.53
1999	59	207	70	228	0.44	1.45
2000	50	160	54	166	0.34	1.06
2001	62	178	72	186	0.46	1.19
2002	50	174	62	178	0.45	1.30
2003	51	147	61	163	0.45	1.19
2004	55	150	62	163	0.43	1.14
2005	47	93	51	98	0.36	0.70
2006	54	63	67	73	0.47	0.51
2007	53	63	61	89	0.42	0.69
2008	49	63	67	98	0.43	0.63
2009*	38	76	48	89	0.31	0.57
2010*	58	46	101	52	0.65	0.33
2011*	38	61	40	67	0.26	0.43

* Data for 2009, 2010 and 2011 are provisional.

@ Including serious injuries of fatal accidents

Year	No. of accidents		No. of persons		Death rate per 1000 persons employed	Serious injury rate per 1000 persons employed
	Fatal	Serious	Killed	Seriously injured @		
1	2	3	4	5	6	7
OIL MINES						
1992	4	23	4	27	0.11	0.76
1993	7	29	7	29	0.21	0.87
1994	4	21	6	27	0.17	0.79
1995	8	18	8	19	0.24	0.56
1996	9	28	10	28	0.30	0.84
1997	2	19	2	23	0.07	0.80
1998	6	20	7	21	0.24	0.71
1999	2	23	2	23	0.08	0.90
2000	1	27	1	28	0.04	1.19
2001	9	21	9	22	0.38	0.94
2002	2	31	2	31	0.09	1.39
2003	1	21	1	22	0.05	1.18
2004	2	38	2	40	0.10	2.09
2005	1	15	1	15	0.05	0.78
2006	4	15	4	15	0.29	1.08
2007	3	16	3	16	0.16	0.83
2008	5	20	6	22	0.25	0.93
2009*	4	18	4	20	0.17	0.85
2010*	4	16	4	17	0.17	0.72
2011*	10	18	10	20	0.42	0.85

* Data for 2009, 2010 and 2011 are provisional.

@ Including serious injuries of fatal accidents

A. (2) EXAMINATION:

The Directorate is also responsible for conduction various examination for certificates of competency for Mines Managers, Surveyors and other Mines officials.

FINANCIAL REQUIREMENT:

(Amount in thousands)

Activity classification	Actual Expenditure 2011-12	B.E. 2012-2013	Expenditure upto DEC., 2012	B.E. 2013-2014
EXAMINATION	94.31	104.75	81.56	128.10

The above provisions represent the expenditure on Salaries, Allowances, Office expenses and other expenditure in connection with conducting various written examinations under the Mines Act and Regulations made there under.

The Coal Mines Regulations, 1957 and the Matelliferous Mines Regulations, 1961 provide for grant fo certificates of competency to Mines Manatgers, Surveyors, Overman, Forman, Sirdars, Mates etc. to ensure that only qualified persons are appointed in these capacities.

Physical Targets and Achievements (Certificate issued):

Activities		2011-12	2012-13	2013-14
Examination conducted	Physical Target	161	130	173
	Achievement	171	150	--
Certificate issued	Physical Target	3700	3000	4000
	Achievement	4500	2237	--

Annual receipts in the form of examination fees during 2010-2011 up-to March, 2011 was Rs.18,61,122/- (Rupees Eighteen lakhs sixty one thousand one hundred twenty two only).

PLAN SCHEMES:

The different plan schemes of this Directorate are as follows:

B. (1) PLAN SCHEME: “Mine Accident Analysis and Modernization of Information Database (MAMID)”**Financial Requirement:**

(Amount in Lakhs `)

Activity classification	Actual Expenditure 2011-12	B.E. 2012-2013	Expenditure upto Dec., 2012	B.E. 2013-2014
MAMID*	267.84	630.00	465.17	212.00

The provisions under “Mine Accident Analysis and Modernization of Information Database (MAMID)” represent the expenditure on the salary, overtime, domestic travel expenses, of-office expenses, supply and materials, publication, advertising & publicity, PPSS, Minor works, foreign travel and other administrative expenses.

Activities :**(A) Mine Accident Analysis and Information Database**

1. (a) Review of the existing system of collection and compilation of information.
- (b) Modification of the existing system as required and re-designs of collection format and mode of collection.
- (c) Compilation of information.
2. (a) Analysis of accident data
- (b) Analysis of other data
3. Development of statistical tools/software modules for analysis of accident data and other safety information in a format compatible to existing mine safety information system software (IMSIS)
4. (a) Digitization of records and
- (b) Electronic conversion of forms and formats for submission of data
5. Dissemination of safety related information

- (a) Through publication of –
 - (i) Statistics of mine in India (Coal and Non-coal)
 - (ii) Monthly bulletin of accident review
 - (iii) Annual Report
 - (iv) Standard Note
 - (b) Through issue of circulars/guidelines.
2. Safety promotion by organizing National Safety Awards (Mines)
 3. Providing comprehensive training (both in country & abroad) for capacity building to achieve the aforesaid objective.
 4. Providing proper infrastructure facilities for computerization and record keeping etc.
- (B) Computerized Mine Safety Information System
- (A) e-Governance in DGMS
- (a) Preparation of Scheme for e-governance in DGMS
- i. Appointing a suitable vendor to study of functioning of DGMS for development of a suitable scheme of e-governance in DGMS.
 - ii. Preparation of a document for proposed e-governance in DGMS, phase-wise.
 - iii. Finalization of the roadmap for e-governance.
- (b) Development of suitable software for implementation of e-governance and its implementation.
- i. Development of software modules for IMSIS for coal mines and its implementation.
 - ii. Development of mine safety information system (IMSIS) for non-coal mines.
 - iii. Development of other modules of software related to mine safety information system for coal mines and non-coal mines.
 - iv. Development of different office utility software for implementation of e-governance.
- (c) Providing suitable networking between regional offices of DGMS for supporting the total scheme of e-governance.
- i. Establishment of Local Area Networking (LAN) at all offices of DGMS.

- ii. Establishment of Wide Area Networking (WAN) between Head office and all other Zonal/Regional/Sub-Regional offices of DGMS.
- (d) Procurement of hardware for implementation of e-governance.
- i. Procurement of servers along with desktop computers, printers and data storage devices/ media for all zonal/regional/sub-regional offices of DGMS.
 - ii. Procurement of Laptop & desktop computers, printers etc. for the inspecting officers of DGMS.
- (e) Providing Technical Support Services by the software developer for implementation of the software developed for e-governance in DGMS.
- (f) Maintenance of Hardware and Software.
- (B) Capacity building of Survey Department of DGMS:
- i. Procurement of modern survey equipments, suitable hardware and software.
 - ii. Digitization of mine plan and storage in electronic format.
 - iii. Specialized training for use and handling of survey equipment/instruments.
- (C) Dissemination of information:
- i. Outsourcing of design/upgradation of DGMS website and its maintenance.
- (D) Providing necessary infrastructure for e-governance:
- i. Furnishing server room/offices.
 - ii. Arrangement for proper record keeping by providing file compactors.
 - iii. Providing broadband internet connectivity at all offices of DGMS.
 - iv. Providing other necessary infrastructure.
- (E) Providing comprehensive training:
- i. Identification of training need for implementation of the Plan scheme activities.
 - ii. Identification of training facilities (in-country and abroad)
 - iii. Imparting suitable training to staff and officers.

**Plan scheme: "Mine Accident Analysis and Modernization of Information Database (MAMID)"
Financial & Physical (Targets & Achievements) during the years 2011-12.**

(Amount in ` . Lakhs)

1	2	3	4	5	6	7	8
SN	Name of Scheme/ Program	Objective/ Outcome	Outlay (2011-12)	Quantifiable/ Deliverables (Physical targets)	Process/ Timeliness	Achievements w.r.t Col(5) as 31.3.2012	Remarks
1.	"Mine Accident Analysis and Modernization of Information Database (MAMID)" [2230.01.102.03.02]	<p>(A) Mine Accident Analysis and Information Database</p> <ul style="list-style-type: none"> ✓ To eliminate risk of disasters and accidents in mines through detailed analysis of accidents and dangerous occurrences using risk assessment and risk management techniques; ✓ Development of standard Safe Operating Procedures (SOPs) and Code of Safe Practices (COPs); ✓ Identification of mines having potential of accidents/disasters through detailed investigation into the operating systems and environment in the mine; ✓ Development of mine data acquisition system and analysis through computerized databases and processing system; ✓ Dissemination of mine information system through various reports, technical instructions/guidelines, circulars on electronic as well as other conventional 	500	<p>(1) a) Review of the existing system of collection and compilation of information. b) Modification of the existing system as required and re-designs of collection format and mode of collection. c) Compilation of information</p> <p>(2) (a) Analysis of accidents (b) Analysis of other data</p> <p>(3) Development of statistical tools/software modules for analysis of accident data and other safety information in a format compatible to existing mine safety information system software (IMSIS)</p> <p>(4) (a) Digitization of Records (b) Electronic conversion of forms and formats for submission of data</p> <p>(5) Dissemination of safety related information (a) Through publication of - i. Statistics of mine in India (Coal and non-coal) ii. Monthly bulletin of accident review iii. Annual Report iv. Standard Note (b) Through issue of</p>	During the year 2011-12	<p>Under progress</p> <p align="center">-do-</p> <p align="center">-</p> <p>Continued. Continued.</p> <p>Continued.</p> <p align="center">-</p> <p align="center">-</p> <p align="center">1</p> <p align="center">12</p> <p align="center">1</p> <p align="center">1</p>	

		<p>media;</p> <p>✓ Identification of mines having high accident potential and formulation of risk elimination/management plan;</p> <p>(B) Computerized Mine Safety Information System</p> <ul style="list-style-type: none"> • Computerization of process and procedures on Mine Safety Information in DGMS; • Establishment of Communication Network using LAN and WAN in DGMS; 		<p>circulars./guidelines</p> <p>(6) Safety promotion by organization National Safety Awards (Mines)</p> <p>(7) Providing comprehensive training for capacity building.</p> <p>(8) Providing proper infrastructure facilities</p> <p>(A) e-Governance in DGMS</p> <p>(a)Preparation of scheme for e-governance in DGMS</p> <p>(i) Appointing a suitable vendor for undertaking a study of functioning of DGMS for development of a scheme of e-governance in DGMS.</p> <p>(ii) Preparation of a document for proposed e-governance in DGMS phase-wise.</p> <p>(iii) Finalization of the roadmap for e-governance.</p> <p>(b) Development of infrastructure for supporting the total scheme of e-governance.</p> <p>(i) Establishment of Local Area Networking (LAN) at all offices of DGMS.</p> <p>(ii) Establishment of Wide Area Networking (WAN) between Head office and all other zonal/regional-sub-regional offices of DGMS.</p> <p>(c)Development of suitable software for implementation of e-governance and its implementation.</p> <p>(i) Development of software modules for IMSIS for coal mines and its implementation.</p> <p>(ii) Development of mine safety information system (IMSIS) for non-coal mines.</p>		<p>4</p> <p>NSA for 2008 & 2009 is under progress.</p> <p>Provided.</p> <p>Provided.</p> <p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Completed.</p> <p>-</p> <p>Completed.</p> <p>Started.</p>	
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				<p>(iii) Development of different modules of software related to mine safety information system for coal mines and non-coal mines.</p> <p>(iv) Development of different office utility software for implementation of e-governance.</p>		-	
				<p>(d) Procurement of hardware for implementation of e-governance.</p> <p>(i) Procurement of servers along with desktop computers, printers and data storage devices/media for all zonal/regional/sub-regional offices of DGMS.</p> <p>(ii) Procurement of Laptop computers, mobile printers etc. for the inspecting officers of DGMS.</p>		Under progress.	
				(e) Providing Technical Support Services by the software developer for implementation of the software developed for e-governance in DGMS.		i. Servers – 10 ii. Xerox – 09	
				(f) Maintenance of Hardware and Software.		-	
				(B) Capacity building of Survey Department of DGMS.		Contd.	
				<p>i. Procurement of modern survey equipments, suitable hardware and software.</p> <p>ii. Digitization of mine plans and storage in electronic format.</p> <p>iii. Specialized training for use and handling of survey equipment/instruments.</p>		Plotters - 8 Total Station-8	
						100	
						-	

				<p>(C) Dissemination of information. Outsourcing of design/ upgradation of DGMS website and its maintenance.</p>		Website designing completed & maintenance is ongoing.	
				<p>(D) Providing necessary infrastructure for e-governance. i. Furnishing server room/offices ii. Arrangement for proper record keeping by providing file compactors. iii. Providing broadband internet connectivity at all offices of DGMS.</p>		- File compactor- 08 nos. Continued.	
				<p>(E) Providing comprehensive training (i) Identification of training need for implementation of the plan scheme activities (ii) Identification of training facilities (in-country and abroad) (iii) Imparting suitable training to staff and officers.</p>		u/process - Completed	

		❖ Dissemination of mine information system through various reports, technical instructions/ guidelines, circulars on electronic as well as other conventional media.		2.0 Development of Accident Analysis Model for:- Coal Mines: (a) Roof fall accidents (b) Fires (c) Explosions (d) Inundation (e) Wheeled & Trackless Machinery (f) Surface Transport Non-Coal Mines: Side Falls Oil & Gas Mines: On-Land Offshore	5 5 5 5 5 5 5 10 1 1	- - - - - - - - - -		
				3.0 Development of Safety Audit Form:- Coal Mines Non-Coal Mines Oil & Gas Mines On-Land Offshore	1 1 1 1 1	- - - - -		
				4.0 Conduct Of Risk Assessment And Preparation Of Risk Management Plan	5 – Coal 5 – N.C 5 – Oil & Gas	4 1 2		
				5.0 Conduct Of National Workshop For:- Coal Mines Non-Coal Mines Oil & Gas Mines On-Land Offshore	1 1 - 1	1 1 - -		
				6.0 Reports Circulars	1 3	Annual report- 1 Standard Note -1		

				7.0 National & International Training & Visits	3	Organized training programme in Inspection & Enquiries for new officers.		
				8.0 Miscellaneous		<ol style="list-style-type: none"> 1. Developed a video spots with regard to awareness generation for Occupational Safety & Health and child Labour on silicosis through NFDC (Doordarshan) which will be telecasted from 1st November, 2012 in DD National & DD News by Prasar Bharati. 2. National Safety Awards (Mines) for the contest years 2008, 2009 & 2010 were given away by the Hon'ble President of India on 21st November 2012 at New Delhi. 		

B. (2) Plan Scheme: Strengthening of Infrastructure Facilities and Core Functions of DGMS (SOCFOD)

Financial Requirement:

(Amount in ` . Lakhs)

Activity Classification	Actual Expenditure 2011-12	Budget Estimate 2012-13	Expenditure upto December, 2012	Budget Estimate 2013-14
SOCFOD*	Gen = 440.30 CW= 315.37	Gen = 521.00 CW = 1500.00	Gen = 300.99 CW = 574.42	Gen = 379.00 CW = 1000.00
	755.67	2021.00	875.41	1379.00

(CW- Civil Works)

Plan Scheme: Strengthening of Infrastructure Facilities and Core Functions of DGMS (SOCFOD) (Target & Achievements during the years 2012-13)

SI No.	Name of the Scheme	Objective/Outcome	Outlay 2012-13 (Lakh Rs)	Quantifiable/Deliverables (Physical Targets)	Quantifiable	Achievement upto Dec, 2012.	Remarks			
1	2	3	4	5	6	7	8			
1	"Strengthening of Infrastructure Facilities and Core Functions of DGMS (SOCFOD)"	The objectives of the scheme are:- <ul style="list-style-type: none"> To render scientific and technological support to the enforcement wing of DGMS. To develop, improve and update need based rescue and emergency response services to the mining industry. To establish Mine Safety & Health Academy with institutes at different offices of DGMS for imparting structured training to DGMS officers and key personnel of the mining industry. To develop a structured mechanism for Occupational Health Surveillance & Disease Control in Mining Industry. To establish a National Council for Mines Safety with a view to generate safety and health awareness among miners and address their training issues. To provide infrastructure facilities i. e. office buildings and residential complexes, communication facilities and 	319.00	Mine Ventilation Studies:	No. of mines					
			202.00 (N.E)					Coal Mines	04	--
			1500.00 (Civil works)					Non-Coal Mines	03	--
			2021.00	Oil & gas Mines	01			--		
				Strata Control Studies:	No. of mines			Coal Mines	04	02
								Non-Coal Mines	01	--
				Mines Environment Studies:	No. of mines			Coal Mines	04	09
								Non-Coal Mines	06	--
								Oil & Gas Mines	02	--
				Development of Standards:	No. of mines			Coal Mines	03	--
	Non-Coal Mines	03	--							
	Oil & Gas Mines	03	--							
	R & D Studies: (Projects)	No. of mines	Coal Mines	01	--					
			Non-Coal Mines	01	--					
			Oil & Gas Mines	01	--					
	Development Of Disaster Management Modules:	No. of mines	Coal Mines	01	--					
			Non-Coal Mines	01	--					

		office equipment and furnishing of offices.		Oil & Gas Mines	01		
		<ul style="list-style-type: none"> To conduct Occupational Safety, Health and Welfare Survey in mines of unorganized sectors To Identify the reasons of non compliance and non-provisions of basic facilities and amenities for the Workers. To Undertake Compliance Measure Programmes To Rehabilitate the Workers affected by Accidents and Occupational Diseases Prepare and Implement Sustainable Development Programme. 		National & International Workshops and Seminars	2 Numbers	--	
				Training of Personnel from Industry at MSHA	100 Persons	135	
				National & International Visits and Training:-			
				<ul style="list-style-type: none"> Offshore & On-land 	06 Visits	--	
				<ul style="list-style-type: none"> Coal Mining, CBM,CTL, UGC and Other New Technology 	05 Visits	--	
				<ul style="list-style-type: none"> Non-Coal Sector 	05 Visits	--	
				<ul style="list-style-type: none"> Silicosis & Pneumoconiosis 	05 Visits	--	
				<ul style="list-style-type: none"> Disaster Control & Management 	05 Visits	--	
				Establishment of Mines Safety & Health Academy (MSHA) at:-			
				<ul style="list-style-type: none"> ➤ Offshore Institute at Goa ➤ MSHA Oil & Gas Centre at Guahati, Mumbai, Ahmedabad ➤ MSHA Centre at Nagpur, Bangaluru, Hyderabad. 			
				Development of National Archives and OSH Resource Centre at Dhanbad			
				International Collaboration on OSH issues with USA, Australia, South Africa, Germany,			

				Russia, Ukraine, and other countries		
				Civil Works: Construction of Office and Residential Complexes at Bengaluru, Ahmednabd, Hyderabad, Guahati, Surat, Gwalior, Varanasi, Ranchi, Raigarh, Mumbai & Goa		
				Civil Works: Repairs and Renovations of Old Buildings, Water and Electricity Lines at Dhanbad, Sitarampur, Koderma, Nellore, Bellary, Chaibasa, and Other Regional Offices.		
				Completion of Library cum Auditorium Building and Associated Work at Dhanbad.		

Review of Past Performance:

(₹ in lakhs)

S.No.	Name of the Scheme	Objective	YEAR	Physical Targets	Achievements	Remarks
190	1	INDUSTRIAL RELATIONS Central Industrial Relations Machinery.	2011 - 2012	Inspections : 43200 Claims : 2400 IDs : 5200	Inspection : 43815 Claims : 3485 IDs : 6220	
			2012 - 2013 (upto Sept, 2012)	Inspections : 41000* Claims : 2450* IDs : 5000*	Inspection : 41000* Claim : 1833* IDs : 3223*	
	2	(i)Machinery for better conciliation and preventive Mediation and more effective enforcement of Labour Laws & Improving effectiveness by providing better facilities & Improving effectiveness by providing better facilities	To augment Machinery for Investigation, Mediation and Conciliation in Industrial disputes & to improve efficiency by providing better infrastructure facilities.			
	(ii)Improvement and Strengthening of training wing	To provide in house training to the CLS Officers	2011 - 2012 2012 – 2013 (upto Sept, 2012)	Training : 100 Officers Training : 100 Officers *	212 Officers trained 20 Officer trained*	

***Upto Sept, 2012**