

\*OCCUPATIONAL SAFETY, HEALTH AND CONDITIONS OF WORK-QUARTERLY NEWSLETTER



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No.04(91)/LM/95 श्रम मंत्री भारत नई ज़्ली-99०००9 NSTER OF LABOUR

MINISTER OF LABOUR INDIA NEW DELHI-1 10001

Dated

**October**, 1995

#### MESSAGE

I am happy to know that DGFASLI is bringing out a quarterly newsletter on Occupational Safety, Health and Conditions of Work "INDOSHNEWS".

This publication is being brought out at a specially relevant time, when hazards at the work place could rise, with the hectic pace of **industrialisation**. Commitment and involvement in creating safe and healthy conditions of work would naturally follow once awareness is created amongst the people. It is my sincere hope that **"INDOSHNEWS"**, with its coverage of both national and international news in the areas of education, research, consultancy, success stories, etc., would be a significantly meaningful instrument for promotion of safety and health in work-place environment.

I send my greetings and good wishes on the occasion.

(G. VENKAT SWAME)

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#### FROM THE DESK

It has been a long **felt** need to have constant interaction with the enforcement agencies on one hand and key resource personnel from industries, **institutions** and **NGOs** on the other regarding the training, research and consultancy actilles undertaken by this **organisation** for wider exchange of views and feedback. This Directorate under the **Ministry** of **Labour**, Government of India **is** developing a networking system known as 'INDOSHNET' in the country for sharing of current information on the Occupational Safety & Health with a view to pool our Information resource for mutual benefit. The newsletter is aimed at **achieving** this concept of information sharing through conventional paper movement and our effort will be to reach policy makers, law enforcing agencies, key industrial resource personnel and safety and health **specilists** so that there **is** continuous exchange of views and ideas furthering efforts for improving working conditions and work environment.

The present **issue** focuses on Child **Labour** elimination in India. Safety and Health aspects of Child **Labour** deserve a greater attention In the elimination of Child **Labour** as most of the occupational disorders manifest their symptoms after prolonged exposure of the child by leaving child to be a **patient** before entering into **adoloescence**. The Government of India is obliged to take all possible steps not only to prevent the exploitation of **children** but also to take necessary and adequate measures for their protection.

( S.K. SAXENA)
DIRECTOR GENERAL

## Child Labour - A crying issue

#### **Introduction**:

The problem of child labour has been an issue of National importance these days and its roots could be traced to our culture and social values and even in our traditional society. The social beliefs and values which we had inherited has a bearing on child labour. The aforesald Unkage has slowly **turned** out to be, in most cases, a case of exploitation and thus we have the child labour problem today. However, time has come taking a fresh look at this Issue and to adapt ourselves to the changing need of the society on a war footing. Since the problem of child labour has a linkage with the social values of the society any measure for elimination and protection should be **compatible** with **this** linkage.

The **children** are the assets of any nation and their proper upbringing and orientation may decide the **future** of the nation. No nation can afford to have a class of children who are deprived of their future and survive **with** crippled health for no fauit of theirs. It is high time we should **realise** this issue and Join hands with the Government in **mitigating** this perennial problem **gripping** our society.

Children are **exploited** and lured/compelled to take up Jobs as they need to be paid a low wage and no other **benefits**. They are also exploited to long working hours, in-human working conditions, lack of health care facilities etc. These exploitations ultimately affect their tender health, growth and

mental capabilities apart, from general development. The children are most amenable to **discipline**, **efficient** and quick In **repetitive** jobs. They are also sutted for those types of jobs which require their **nimble** fingers to **achieve** Increased productivity. They are honest and **sincere** and can easily be humbled and therefore the **exploitation** continues.

#### Why children are taken to work

In most cases the probable reasons for child labour are poverty, cheapness. **litteracy**, easy availability, economic compulsions, scarce schooling facility, casual nature of employment, social tustoms etc.

### Indian Constitution and child labour

The framers of the **Indian** constitution had consciously Incorporated provisions to secure and protect the tender age of the children in the following articles.

Article 15: prohibition of discrimination on grounds of **religion**, race, caste, sex or place of **birth**.

(3) Nothing in **this** article shall prevent the State from making any special **provision** for women and children.

Article 23: **Prohibition** of traffic in human beings and forced **labour**.

- (1) Traffic In human beings and begar and other similar forms of forced labour are prohibited and any contravention of this provision s hall be an offence punishable in accordance with law.
- (2) Nothing in this **article** shall prevent the **State** from imposing compulsory service. for public purposes, and In imposing such **service** the Sate shall not make any **discrimination** on grounds **only** of **religion**, race, caste or **class** or any of them,

**Article 24:Prohibition** of employment of **children** In factories etc. No child below the age of fourteen years shall be employed to work In any factory or mine or engaged in any other hazardous employment.

Article 39:Certain principles of policy to be followed by the state The **State** shall, In **particular**, **direct** It's policy towards securing

- **(e)** that the heaith and strength of workers, men and women, and the tender age of children are not abused and that **citizens** are not forced by economic necessity to enter **vocations unsuited** to their age or strength;
- (f) that children are given opportunities and facilities to develop in a healthy manner and in conditions of freedom and dignity and that childhood and youth are protected against exploitation and against moral and material abandonment.

Article 45: Provision for free and compulsory education for children. The State shall endeavour to provide, within a period of ten years from the commencement of thii Constitution, free and compulsory education for all children until they complete the age of fourteen years. Considering the above provisions, the Government of India is

obliged to take all possible steps not only to prevent the **exploitation** of children but also to take n**ecessary** and adequate measures for their **protection** and development.

Safety, Health and Child Labour Safety and Health aspects of child labour deserve a greater attention in the elimination of child labour than any other single social aspect. A child is expected to get the necessary care from the necessary education from parents, schools, recreation from play and a heathy environment to live In so that the process of development of physical and mental health takes place in the right proporation and in the right direction at the **right** time. The period In which this development should take place. If Instead, is not allowed, the growth will be affected, mental faculty cannot take shape, heaith may get crippled and so on. A good life is thereby retarded and Is made inactive prematurely and the resulting **sick** persons became a **liability** to the **society**. A child turns out to be a **patient** before entering Into adolescence and a good and prime life is thereby deprived. In this connection it is worth mentioning that the Government has already identified certain hazardous occupations and processes prohibiting the employment of the child labour especially considering the occupational hazards involved In such occupations and processes. As most of the occupational disorders manifest Into symptoms after an exposure of about 8-10 years, a **child** exposed to these hazards start showing up symptoms when he enters his adulthood. The remaining part of the life, which is supposed to be his **productive** and prime life, is deteriorated. crippled and sometimes shortened. No country can dream of a better tomorrow where today's children struggle for their survival

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#### Cover feature

because of exposure to occupational hazards during their chlldhood. In the case of a factory worker, on the contrary, the occupational exposures show up symptoms normally at the fag end of productive life, in most cases, after superannuation. As such the **issue** of child **labour is** not **only** to be looked up on as a social evil but to be more of a safety and health problem of the **nation**. Therefore, it is imperative that all efforts should be aimed at saving the life of thousands of children engaged In various occupations and to ensure their **life** span from getting At the same time, the shortened. legitimate right of such children are to be protected as these children form the building blocks of tomorrow's nation.

### The Child **Labour** Act and the **Children** at **work**.

The Child Labour Act was enacted by the Parliament In the year 1986 to prohibit the engagement of children in certain employment and to regulate the conditions of work in certain other occupations. The act defines 'child' and lays down requirements on health and safety, hours and period of work, weekly holidays, mechanism to seffle disputes on age and includes a schedule Incorporating lists of occupations and processes where **child labour** is prohibited. Although the Act came Into existence in 1986, the enforcement has been far below the expectations.

#### Statistics and child labour

From the available statistics on **children** published by Ministry of **Labour**, Government of Indla , It may be seen that all children employed in among industrial category in rural and urban

**concentrations**, about **80%** of the child **labour** are working in rural area and around 20% **only** are working in the urban area

Further, # may be seen that a large proportion of the child labour are working cultivation sector and also as agricultural labourers. The child workers employed in household sector are more in urban areas than in rural areas. Similar is the case of child **labour** employed in trade and commerce, transport, storage and communication sectors. From the above, It reveals that the problem of child idbour has, to be looked at from a different angle so far as the measures for elimination/protection are concerned, As per the **statistics**, this being a problem more of a rural concentration, needs to be tackled through suitable agencies who have access to the rural child labour population. With regard to an estimate of child **Jabour** in selected cottage and small industries. it is seen concentration of child labour is in occupations like carpet weaving, silk/zari embroidery, match and fire works, quarries, glass, bldi and handicrafts etc. From the above, It is clear that the children engaged in the aforesaid occupations may be exposed to various health hazards prevalent there. it is needless to say that most of the occupational diseases are 'irreversible' in nature and the tender age is more susceptible to these diseases than the adult age. The picture which arises from the above **analysis** further emphasise the urgent need for elimination of child labour in view of their exposures to safety and health problems.

## The child labour and efforts by the government

The Government of Indla announced the

#### Cover feature

**National** Policy of Child **Labour** in the year 1987 and **action** plan envisaged under this **policy comprises**,

• a **legislation** action plan.

Focusing of development programmes for **benefitting** children whereever **possible**.

Project based action plans in areas of high concentration of child labour engaged in wage/quasi-wage employment.

Under the above **policy**, a number of **projects** were launched by the Government of **India** to tackle the problem of **child labour**, Some of the important projects so far sanctioned for the benefit of **child labours** are In the following **industries**;-

- 1) Match Industry In Sivakasi, TamilNadu.
- **2)** Precious stone **pollshing** industry In Jaipur. Rajasthan.
- 3) Glass Industry In Ferozabad, U.P.
- 4) Brassware Industry in Moradabad, U.P.
- 5) Handmade Carpet Industry In Mirzapur-Bhadohl, U.P.
- 6) Lock-making Industry In Allgarh, U.P.
- 7) Tile Industry In Jaggampet, A.P.
- 8) Slate Industry In Markapur, A.P.
- 9) Slate Industry in Mandsour, M.P.

In addition to the above, many other projects are also **initiated** by the Government in this regard. Many steps have been taken so that the provisions of the Child Labour Act are complied with In respect of children employed In dangerous occupations and processes. Another important area where action has been **initiated** is In **creating** awareness with regard to prohibilion and abolition of child labour, in the recent past, Government of India had organised an workshop for **elimination** of child **labour** in hazardous occupations from 13-14

September, 1995 at New Delh. The workshop deliberated on various issues **involving elimination** of **child labour** and drew 'up action plans In each The Important suggested area. **recommendations** that emerged from the workshop through different working groups are being **considered** by the government in its effort In tackling the So far as the problem on **priority**. international cooperation is concerned, the Government of India has adopted the recommendations made by International Labour Organisation under its various child. labour elimination schemes and projects. The aovernment has also set up necessary mechanisms for continuousmonitoring projects, evaluation of **its** and programmes and schemes.

## Child Labour - DGFASU Experiences

DGFASLI had conducted a few studies involving child labour engaged in hazardous operations viz., match factories in Sivakasi, Slate pencil factories in Markapur (A.P) & Mandsaur (M.P), glass bangle factories in Firozabad (U.P). Details of the studies conducted at Sivakasi are given here as an example of the hazardous working conditions to which the children are exposed.

The studies Indicate that the children are very often huddled Into small rooms. The study team witnessed certain undesirable and unsafe **practices** such **as closing** the doors & windows in the work room where a fire could develop. The stated reason for the inhuman **practice** of keeping the doors and windows of the **workshed** closed was to prevent the children from geffing distracted from **their** work. Since the waxed match **sticks** were being gathered, **in** the event of any fire, **if's** 

spread will be very rapid as the whole work place was found strewn with match sticks. The closing of windows and doors would also prevent the escape of children exposing them to serious dangers. The work postures of the children were not conducive. They were constantly squatting and bending on the floor to gather the matches for boxing them. The medical opinion indicates that the girl children might face problems during child birth when they grow up owing to the constant strain on the pelvic region.

## Child Labour - DGFASLI's Action Proposals

DGFASLI being a pioneer organisation working in the field of Safety & Health, has been aware of the problem of child **labour** and has a number of proposals In this regard. DGFASU considers the child labour more of a Safety & Health problem and has identified agencies whose services could be profitably utilized in the above proposals. The experience of DGFASLI in propagating the concept of Safety & Health through its Mobile Safety Exhibition has been a successful venture in creating awareness amongst factory workers. This concept can be used by the district authorities and DGFASU will be able to provide the necessary guidelines in sefflng up the exhibition. This mobile exhibition van be taken to the rural areas and may also be used for organking rural based awareness programmes through suitably designed publicity material.

To create awareness, especially on Safety & Health aspects, the immediate agency available at the rural areas are the medical profeulonals at the primary health centres. A module for the 'trainers.

preferably for the **district** level medical officers, can be developed by DGFASLI so that the **medical** professionals In **PHCs** may be In turn given suitable exposures. These awareness programme can be organised by PHCs for the benefit of parents, employers and for the general public in the **locality**. Similar or separate modules could be developed for dillct level **officers** for **giving** exposure to other non-medical personnel having access to child **labour** pockets. DGFASU has plans to include separate modules on child iabour units In the routine training programmes targeted at inspectors, Safety Officers, Trade Union opinion leaders. These programmes are conducted at **Labour Institutes** and these modules are sultably dovetailed Into the main programmes wth the objective of providing exposure to the child **labour** problem.

With regard to developing publicity material and training aids, DGFASLI has the Mastructural facility including a well equipped studio at Bombay. Films & video cassettes on child labour could be produced for use in the above programmes.

#### Conclusions

The child **labour** problem being a rural area orlented **issue**, all the efforts in **its elimination/prohibition** need to be made through measures which can reach these areas and also to the concerned **directly**. Through the agencies **identified**, DGFASLI **will** be able to contribute its might In **tackling** this cancerous problem and thereby help building up a nation of strong and healthy **citizens**.

##########

# ENVIRONMENTAL STUDY IN A TYRE & TUBEMANUFACTURING PLANT IN UTTAR PRADESH.

An environmental study in a **tyre** and tube plant in Utter Predesh was conducted by the Regional **Labour Institute**, Kanpur in the month of June, **1995**. The study was conducted **with** the objective to assess the level of alrbome **contaminants** In different work areas of the plant and to suggest the remedial measures wherever necessary to Imrpove the environmental conditions. **Noise** levels were also measured in all the noisy areas of the plant.

#### findings & Recommendations:

The **concentrations** of carbon dust in carbon feeding areas, zinc oxide dust, stearlc **acid** dust and **sulphur** dust In **chemical** compounding area and talc dust near **banbury** and tube booking areas were found exceeding their respective Permissible level of exposures **(PLE)** However, concentration of other contaminanb were found **within limits**. Noise levels in some of the areas, **e.g.** compressor house, **tyre** curing press areas, etc. were also found to exceed the PLE.

Thirteen recommendations had been made for improvement in environmental conditions, e.g. efficiency of dust control devices should be improved by regular maintenance, providing and ensuring use of proper personal protective equipments, e.g. respirators, ear plugs, etc. by workers for their protection, periodical medical examinations, training etc.

# ENVIRONMENTAL STUDY IN A FOUNDRY FORGE PLANT IN UTTAR PRADESH:

An environmental study In a foundry forge plant In Uttar Pradesh was conducted by the Regional Labour Institute In August. 1995. The objective of the study were to assess the level of airborne contaminants In different work areas, to measure the sound levels at all noisy locations and to suggest remedial control measures wherever necessary to improve the environmental conditions.

#### findings & Recommendations:

The concentration of some of the airborne contaminants, e.g. grinding dust. welding fumes, silica dust, wood dust, In some of the areas were found exceeding their respective PLES. However concentration of phenol formmldehyde vapour and smoke were found within limits. Noise levels at certain areas, e.g. steel melting shop, steel foundry, forge shop, light foundry and In compressor house were found exceeding the PLE for B-hours exposure.

Remedial measures had been suggested of for improvement for dust control in work, environment, periodical medical examination of workers, use of personal protective equipments by workers, etc.

# STUDY OF THE POLLUTANTS IN THE WORK ENVIRONMENT IN A FERTILIZER FACTORY IN ORISSA.

A study on pollutants in the work environment in a **fertilizer unit** in Orissa was taken up by Regional **Labour Institute**, Calcutta with the following **objectives**;

- a) To evaluate the airborne concentration of the pollutants in the working atmosphere.
- **b)** To suggest improvement wherever necessary.

#### Findings & Recommendations:

In the Di-ammonium phosphate manufacturing plant the concentration of ammonia was found higher than the **permissblle** exposure level in some of the working locations. Concentration of ammonia for personal exposure was found within **its** permissible level. The area concentration as well as personal exposure of DAP dust in the bagging plant were found within it's permissble level,

In other location the levels of pollutants were found **within** their **respective** limits.

To improve the working conditions various control measures which include mechanisation of the process, proper maintenance, ventilation, stoppage of leakage. regular monitoring of air-borne pollutants and education of workers were emphasised.

# PREVALENCE OF ASBESTOSIS AND RELATED DISORDERS IN AN ASBESTOS FIBRE PROCESSING UNIT

In the year 1987 an occupational health study of 200 asbestos workers was conducted by the Regional Labour Institute, Calcutta. The report of the study was sent to the employer **implementation** o f control for measures suggested. **Necessary** technical and medical measures were also enforced through the Chlef Inspector of Factories, Government of West Bengal where the Asbestos Unit was located. The enforced measures were complied with by the employer.

Subsequently the workers were subjected to medical examination under Occupational Health Clinic at RLI, Calcutta In the year 1994-95 and the results of the same were utilised for comparison of their present health status with that of the earlier one.

#### Findings & Recommendations:

It was seen that the prevalence of overall **morbidity** of asbestos workers over a period of 7 years had not **materially** changed. 2.2% prevalence of definite asbestosis was observed in non-smoking group only. whereas parenchymal and pleural abnormalities were more prevalent in non-smoking group (10.6% & 2.3% respectively) than the smoking group (6.8% & 0.7% respectively). **Possible** asbestosis was more prevalent in

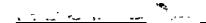
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#### Consultancy/Research Findings

smokers (7.5%) than in non-smokers (6.1%). These observations were **indicative** of the fact that the radiological changes were present **irrespsective** of **smoking habits**.

Though lung **function** (criteria of **restrictive disorders**) showed **significant** improvement rather than deterioration, when the prevalence of **definite** asbestosis was compared **it** was found to be **significantly** high In the year 1995. This is possible as the **clinical** and **radiological** signs of asbestosis may not be parallel.

2.2% cases of definite asbestosis could be **established** among asbestos workers in the year 1995 **Indicating** the progressive nature of the **radiological** lesions due to **asbestos**.



The most affected workmen belonged to the exposure group above **30 years** among the non-smoking group. This was consistent with the earlier findings too

Recommendations were made for immediate isolation of 22 affected workers from dustry areas and suitable pre-placement examination.

Notification to the State Factory Inspectorate was also done for suitable enforcement. Stress was made for imoprovement of existing dust control measures and o-monthly medical supervision of exposed workers.

#### industrial Medicine

## **Postgraduate**Certificate Course **in** Industrial Health

The Post-graduate CertIflcate Course In Industrial Health is a very intensive and **detailed** programme consisting of lecture field vists, tutorials, panel discussions, laboratory exercises etc. and **extensively** practical oriented. This programme is exclusively designed for medical officers from the hazardous industries to enable them to establish and maintain the occupationsol health service centres in their factories and effectively provide medical surveillance to the and thereby control the workers incidence of work related diseases. This is mainly intended to **fulfil** the statutory requirements under the Indian Factories (Amendment) Act, 1987. On completion of the curriculum an examination Is held and successful candidates are awarded a certhicate of 'ASSOCIATE FELLOW OF INDUSTRIAL HEALTH.'

#### Coatents:

health dlsorders & Occupational occupational diseases - diagnosis and management; occupational health service at workplace; medical aspects Of legislation; factories epidemiology; medical sruveillance: toxicology: other related topics includina accident industrial ergonomics, prevention. hygiene, etc.

#### **Eligibility:**

Degree in Medicine (M.B.B.S. degree or equivalent). Sponsored candidates wth

experience in industry are preferred.

**Durations** 3 months (annual)

#### industrial safety

Diploma **Course** i n Industrial Safety

Ensuring the safety and heaith of the Industrial worker is the statutory responsibility of the **occupier**, it is also **good** business sense, since preventing accidents and heaith hazards reduces losses and improves **productivity**. The services of **qualified** safety professionals are essential to advise the management on these matters. Recognising the need for the appointment of **qualified** safety professionals, as safety officers, a statutory **provision** has been made in the safety **iegislations** applicable to the **factories** and ports.

The Central Labour institute in Bombay and the three Regional Labour Institutes In Calcutta, Kanpur and Madras have been conducting the one-year Diploma Course in Industrial Safety since 1974 and 1982 respectively. The course provides comprehensive education with an emphasis on academic as well as practical aspects of industrial safety and health.

The course is presented through lectures supplemented by discussions, case studies, laboratory exercises and study **visits** to **factories** and related **institutes**. The students also carry out project works.

#### Contents

The course designed in 1974 was redesigned in 1990 to suit the emerging needs of the factories undergoing both technological and management advancements,

The course now offered provides **indepth** knowledge on industrial safety and health covering the areas of :

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#### Education

Safety Management; Safety EnglneerIng; Appraisal, **Analysis**, Inspection and Control Procedures related to industrial accidents; Safety and the Law; **Occupational Hygiene** and Health; Safety in Chemical Industry

In **addition** to the above areas the course offers the following **five** elective subjects:

Safety in **Engineering** Industry: Safety in **Textile** Industry; Safety in Construction Industry; Dock Safety; Advanced Safety Management and Engineering **Techniques.** 

Diploma **certificates** to the successful candidates are awarded by the Board of Technical **Examinations** of the State concerned.

#### **Eligibility**:

The prescribed minimum qualification and experience for admission to the course are: a Diploma/Degree in Engineering with two years of experience or degree in Science (with Physics or Chemistry) with two years of experience. The experience on the shop floor, training, safety etc. In industry and docks are considered.

**Durotion**: 1 year.

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# International Occupational Safety & health Information Centre (CIS)

**CIS** (from the French name, Centre international **d'information** de **securite** et d'hyglene du travail ) Le. International Occupational Safety and Information Centre. is a part of the International Labour Office, Geneva, Swiierland. The mission of CIS is to collect world literature that can contribute to the prevention of occupational hazards and to disseminate this information at an International level. **CIS** imparts to its users the most comprehensive and up-to-date information in the **field** of occupational safety and heaith. The work of CIS is supported by a worldwide safety and health information exchange network which includes over **86 affiliated** National Centres and 23 CIS collaborating Centres. Central Labour Institute, Mumbal has been designated as the CIS National Centre for India.

**CIS** can offer you rapid access to comprehensive information on occupational safety and health through:

- ILO CIS Bulletin 'Safety and Health at Work
- Annual and S-year Indexes
- -The **CIS** Thesaurus
- -The **list** of periodicals abstracted by **CIS.**
- -Microfiches on **original** documents abstracted I n **CIS DOC (CISILO)**

#### **Excerpt from CIS** Doe

**TITLE:** History of occupational health In Osaka In relation to phosphorus poisoning,

CIS accession number:

#### **Abstracts**

A high Incidence of phosphorus poisoning was reported in Japan in 1883 among **lucifer** matches In children making Osaka and Tokushima Twenty-two cases of phosphorus necrosis (phossy law) treated In the Osaka Red Cross Hospital were reported In 1919. The japanese Government prohibited the use of yellow phosphorus in match manufacturing in 1921. However, cases of phossy jaw still occurred In phosphoric acid, phosphoric acid **fertiliser** and yellow phosphorus plants. These cases seem to have been due to exposure suffered before 1974: a survey at a **phosphoric** acid plant in 1954 found concentrations of phosphorus in the alr of 0.82 and 0.58mg/m(3) at the measuring **points**. Seven cases of **phossy** jaw were found at the plant during 1963-1%6, The ages of the victims at diagnosis ranged from 28 to 53 years and the duration of work before the diagnosis ranged from 1 year and 11 months to 10 vears.

For details write to CIS National Centre for Indla, Central Labour Instiie, Sion, Mumbai • 22

## MATERIAL SAFETY DATA SHEET (MSDS)

#### Important informations:

Product Name; Potassium Chlorate Common Synonyms: ChloricAcid, Potassium Salt, Berthollet Salt, Chlorate of Potash.

Chemlal Family: Potassium Compounds.

Formula: KCL03

#### Dangers

Causes irritation, strong oxidker, contact with combustible materials, flammable materials, or powdered metals can cause fire or explosion. May cause shocksensitlle mixtures. Clothing contaminated with chlorate or its solutions is dangerously flammable. Remove clothing and keep wet until washed throroughly with water. Keep away from fire. Spillage may cause Do not get on floor. Keep from contact with clothing and other combustible materials. Do not store near combustible materials. Avoid contact with eyes, skin, clothing. Keep in tightly closed container. Wash thoroughly after handling. In case of fire, soak with water. In case of spill, sweep up and remove. Flush spill area with water.

## **Special fire- fighting** procedures

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in **positive** pressure mode. Move exposed containers from tire **area if** it can be done

without risk. Use water to keep fireexposed containers cool.

## unusual fire & explosion hazards

Strong oxidiser. Contact with combustible materials, flammable materials or powdered metals can cause fire or explosion. When exposed to heat, closed containers may explode; may also give off highly toxic or liritating fumes.

## Emergency and **first** aid procedures

ingestion: If swallowed and the person is conscious, immediately give large amounts of water. Get medical attention.

Inhalation: Call a physician. If inhaled, remove to fresh air. If not breathing, give **artificial** respiration. If breathing is **difficult**, give oxygen.

SkIn contact: In case of contact, flush skin with water.

**Eye contact:** In case of eyecontact. **Immediately,** flush with plenty of water for at least 15 minutes.

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## Steps to be taken in the event of a spill or discharge

Wear self-contained breathing apparatus and full protective clothing. Keep combustibles (wood, paper oil, etc.) away from spilled material. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water

#### Disposal procedure

**Dispose** In accordance with all applicable federal, state and local environmental regulations.

Note: The above details constitute part information of MSDS taken from Canadian Centre for Occupational Health and Safety. For complete MSDS write to MIS Division, Central Labour Institute, Sion, Mumbal-22. MSDS on about 90,000 chemicals/materials are available with Central Labour Institute. Computer print outs will be supplied on nominal charge basis.

## LIBRARY-CUM-INFORMATION CENTRE.

The Library-cum-Information Centre of Central Labour Institute has unique and rare collection of different kind of **publications** In the field of Occupational **Safety.** Hearth & Management. It also has a good collection of **different** standards codes, regulations and publications on alled subjects. In the current year the centre is subscribing to 34 Indian & foreign journals. besides receiving complimentary copies of different periodicals from all over the world. The centre provides facIltties for study. and research and at the same time supplies authentic and up-to-date Information on Occupational Safety, Health Management. It also extends reading facilities to students, **scholars** attending different training programmes & courses conducted by CU. From January '95 date a number of publications in the field of OSH have been added to Library. Some of them are:

1. PATTY'S INDUSTRIAL HYGIENE AND TOXICOLOGY VOL IN PART A: THEORY AND RATIONALE OF INDUSTRIAL HYGIENE PRACTICE: THE WORK ENVIRONMENT B Y ROBERT L HARRIS, LEWIS J CRAILLEY & LESTER v. CRALLEY.

Publishers: John Wiley & Sons. Inc.

While refledling on the changing face of Industrial hygiene in the 90's this

volume examines the foundations of Industrial hygiene. The articles are contributed by the worlds leading specialists in Industrial hygiene. This edition contains entirety new chapters on the occupational hazards of archaeology, professional liability and risk analysis in Industrial hygiene.

## 2 . EFFECTIVE HUMAN RELATION IN ORGANIZATIONS B Y REECE/BRANDT, FOURTH EDITION.

**Publisher:** Houghton **Miffiln** Company. **Bostun.** 

The book reviews major trends In human **relations** that developed in the past decade. **me** material is presented non-tehnical, interesting а It **provides** valuable readable style. insights regarding ways that organizations can maintain proper balance between concern for production and people throughout the decade ahead. It Include a large number of real world examples obtained from a wlde range of government agencies, non-profit institutions and progressive companies.

### 3. YOUR GUIDE TO HEALTH BY CLIFFORD R. ANDERSON

**Publisher:** Orient Watchman **Publishing** House

January - March 1996 & Indoshnews

#### Glimpses of books & films

Today there is a mass of health industries and ports, The studio has been information available on how to maintain set up with a view of producing these films good health. In this book the author has depicting Indian conditions since these presented it in a simple readable style films are not available in the market. that a layman would easily follow. It

discusses about health condmons and medicines available in our country. The been produced till now:

book **discusses** body, mind and soul as a unit and highlights the fact that the 1. 'DGFASU in me service of the Natlon'. physical **health** depends to a very great degree upon mental and spiritual health.

The **five** films as **given** below have

This film is of 10 min. duration and prospective audience are personnel 4. OCCUPATIONAL THERAPY engaged In industries and ports for TREATMENT GOALS FOR THE promoting safety & health.

**PHYSICALLY AND** 

COGNITIVELY DISABLED BY 2. 'Container Handing: Do it safe way KAY CLAUDIA **EARHART AND** CATHERINE A 'I'INABLUE.

**ALLEN.** (Motivational)'.

This film is of 9 min, duration and prospective audience are dock workers engaged In loading and unloading of

Publishers: The American Occupational containers. Therapy Association Inc.

3. **Safe** use of Chlorine'.

This book is designed to help therapists predict me rehabilitation potential for In a variety of treatment settings with personnel, **various** patient populations are discussed, Case studies have been used to illustrate 4 the application of knowledge in a variety System in india of age groups, diagnostic categories, **socio-economic** condmon and cultures. Some relationships with the social and prosepctive audience are managers and health care services are identified supervisory alongwith needs for further research.

This film is of 14 min. duration. This is patients who have a cognitive disability. an educational film to be used by the Case studies written by therapists working trainers for workers as well as supervisor

\*Major Accident Hazard Control

This film is of 15 min. duration and personnel of ,MAHCA Installations.

**`Safety** In container handling (Loading & Unloading) (Instructional)

Thb film is of 13 min. duration. It is meant for dock workers engaged **loading** and unloading.

An Audio Visual Studio under the communication division has been set up to produce **video films** on Safety & Health **concerning** Industrial workers working in

### 1. GINNING FACTORIES **ACT REPEALED**

The Union Government has **repealed** the Ginning and Pressing **Factories** Act, 1928 on the ground that it **is** no longer relevant after the reforms.

With this, another obstacle hampering the interest of the Cotton and Ginning units has been removed.

The units **will** no **longer** have to go in for compulsory **registration**. Moreover, they **will** be able to bargain and obtain better **prices** for cotton **supplied** to **Textile mills**. Under **its** liberal Industrial **policy**, the Government dispensed with the need for a **licence** under the Industries (Development and **Regulation**) Act, 1951 for ail textile and **powerloom units**. It has however, retained locational **restrictions**.

Recently, a committee constituted ten years ago to ensure that nylon yarn prices (NYP) dld not pierce the celling, was **abolished**. The **decision** was taken **since** the **NFY prices** had been **ruling** below the ceiling. The Ginning and **Pressing** Factories Act has been abrogated on the basis of the **recommendations** of a high powered working group. The report said a glnning or a pressing unit which made the **qualifications** of a small scale unit and wanted to be **realstered** as such, should be allowed to do so. Further, market forces should be allowed to determine ginning and pressing rates once the Act was revoked. The report said quality standards for cotton **ginning** and pressing should be prescribed by a technical committee **comprising** representatives of the textile commission, Northern **India** Textile Research **Association**, Ahmedabad Textile Research Asscolation and 7 East India Cotton Association.

(Source B.S dt. 27.9.1995)

January - March 1996 & Indoshuews

## 2. CHILD LABOUR ERADICATION SCHEME

The Union Government has selected seven revenue districts in Andhra Pradesh, Bihar, Karnataka, Orissa and Tamil Nadu to implement the Special Child Labour Eradication Programme, under the National Child Labour Programme. The Tiruchirapalli District Collector, Mr. Rajeev Ranjan, told newsmen here on tuesday that the seven districts are Tiruchirapalli (Tamil Nadu), Warangal (Andhra Pradesh). Dumka (Bihar), Gulbarga (Karnataka) and Sonepur Jharsuguda and Nuapada in Orissa.

He said the Centre had approved a Rs. 53.40 lakhs to implement the project in Tiruchirapalli District. The administrations would set up 30 special schools with a intake of 50 children rescued from various industrial units.

Mr. Ranjan said an estimated 4334 child labourers were engaged in textile, tannery, gemcutting, leather, stone crashing and beed industries in various parts of the district.

(Source • Indian Express dt. 11.10.1995)

# 1. MANUAL O N MANAGEMENT OF CHEMICALS AT WORK ENVIRONMENT

**Industrial activities involving** hazardous chemicals have the potential to cause occupational diseases, injuries and pollution of the environment If effective measures In the use of these chemicals at work place are not observed. This manual has been designed in such a way that It would be of value to all those engaged In promoting or practising the safe use of chemicals at work. practical quidance on the safety precautions to be followed when using and handling chemicals at workplace is emphasised throughout the manual. The manual covers topic such as safety & health provisions in the Factories Act ammended in 1987 and ILO Convention on Chemical Safety, Health hazards due to chemical exposure, classification, labelling and packaging of hazardous chemicals, monitoring in the workplace, protective equipment, management of chemical safety, a guide to safe use of benzene and teaching techniques.

#### 2 TRAINING MANUAL ON BASIC COURSE FOR INSPECTORS OF FACTORIES

The advancement In technology and increased use of hazardous chemicals in

industries have made if necessary for OSH **institution** to formulate training module for the safety personnel, which will help them to combat the safety problems In industries. In this manual, the topics accident prevention, covered are Factories Act, 1948, Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 • An overview, techniques of hazard analysis motivation for safety, health hazards in industry and their control, bulk storage of hazardous chemicals, safety audit, machine guarding, noise pollution control. industrial ventilation, accident reporting & ergonomics, investigation, training in safety and health and personal **protective** equipment.

## **3.** PARTICIPATIVE APPROACH FOR SAFETY **AND HEALTH**

This booklet comprises write-ups for the training programme. The topics covered **are**: participative management • a conceptual framework, safety **committee**: a **participative** approach, **organising** for safety & health at work, **effective** communication in a **participative** forum for health and safety, **participative** safety forum. • how to make it more **effective**.

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#### TRAINING PROGRAMMES

#### JANUARY - JUNE 1996

#### CENTRAL LABOUR INSTITUTE, SION, MUMBAI-400 022.

Course Title	Date	Level	Venue
Three Months Post Graduate Certificate Course in <b>Industrial</b> Health (AFIH) for Med. <b>Officers</b> .	1st Jan • 31stMar. 1996.	Medical Doctor	C.L.I., Mumbal. (Indl. Medicine <b>Divn.)</b>
Spl. <b>Post</b> Graduate Course on Occupational & Environmental Medicine for students of Diploma in Environmental, T.B. & Respiratory <b>Diseases</b> ( <b>DETRD</b> ), College of <b>Physicians</b> & Surgeons, Bombay,	22nd Jan • 2nd Feb. 1996.	Medical Doctor	C.L.I., Mumbal. (Indl. Medicine Divn.)
Management of Occupationa Stress.	l 15 th Jan. <b>-</b> 19th Jan. <b>1996</b> ,		C.L.I., Mumbai. (Indl. Psy. Divn.)
Evaluation & Control of Hazard In <b>Fertilizer</b> Industry.	ds <b>8th</b> Jan <b>-</b> 12th Jan. <b>1996</b>		C.L.I., Mumbai. (Indl. Hygiene Divn.)
Development of on-the-job counselling skills.	<b>12th Feb -</b> 16th Feb. 1996		C.L.I., Mumbal. Indl. Psy. Divn.)
Ergonomics - A tool for improvement Safety, Heaith & Produtivity	19th Feb • IC- 23rd Feb. 1	5%	<b>C.L.I.,</b> Mumbal. <b>(Indl. Psy.</b> Din.)
Total <b>Quality</b> Management & ISO 9000	<b>5th Feb</b> - 9th Feb. <b>1996</b>		C.L.I., Mumbai (Prodductivity Dvn.)
<b>Evaluation</b> and Control of hazards In <b>Dyestuff</b> Industry.	5th Feb - 9th Feb. 1996	• )	C.L.I., <b>Mumbal</b> (Indl. Hygiene <b>Divn.)</b>

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Course Title	Date	Level	Venue
Motivation for Safety	<b>20th</b> Feb. <b>-</b> 22nd Feb. 1996	Executives	C.L.I., Mumbai (Indi. Psy. Divn.)
Training of <b>Trainers</b> for Safety <b>&amp;</b> Health in Industry.	19th <b>Feb -</b> 23rd Feb 1996	)	C.L.I., Mumbai <b>(Staff.</b> Trg. <b>Divn.)</b>
Wage & Salary Adminis- tration	18th Feb • 22nd Feb. 1996		C.L.I., Mumbal nion ( <b>Productivity Divn.</b> )
Evaluation & control of Hazards In manufacturing & formulation units of pesticides.	1 <b>1th</b> Feb. <b>-</b> 15th Feb. 1996		C.L.I. , Mumbai <b>(Indi.</b> Hygiene <b>Divn.)</b>
Trg. Prog. for <b>C,I.S.</b>	12th Feb. • 14th Feb. 1996		C.L.I., Mumbai (Safety Divn.)
Management of Safety, health and environment at workplace.	25th Feb. • 29th Feb. 1996	6	C.L.I., Mumbai (Safety <b>Dlvn.)</b>
Diploma Course in Industrial <b>Safetry</b> 199596	1st Mar. • 29th Mar. 199€	5	C.L.l., Mumbai (Safely <b>Division)</b>
industrial Safety for <b>CIS</b>	6th Mar. • 8th Mar. 1996		C.L.I., Mumbal (Safety <b>Divn)</b>
Evaluation and Control of Hazards in Mfg. & Formulation <b>Units</b> of Pesticides	11th Mar. • 15th Mar. 19	96	C.L.I., Mumbai (Indl. Hygiene Dvn.)

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#### Announcements

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course Title	Date	Level	Venue
Safety In Construction Work	1 <b>1th</b> Mar. • 15th Mar.1996	•	C.L.I., Mumbai (Construction Safety Divn
Trg. Programme on Techniques of Hazard Assessment and Its Control in MAH Installation	18th Mar. • . <b>22nd</b> Mar. 1996		C.L.I., Mumbai (MAHCA <b>Divn.)</b>
Approaches to QWL	18th Mar. <b>-</b> 22nd Mar. 1996		C.L.I., Mumbai (Productivity Dvn.)
<b>Specialisd</b> Training Course on Safety Report	25th Mar. 27th Mar. 1996 & 28th Mar. • <b>30th</b> Mar. 1996		C.L.I., <b>Mumbal</b> (Safety <b>Divn.)</b>
Management of Human Factors for Safety & Health	8th Apr. • 12th Apr.19	<b>•</b> 96	C.L.I Mumbai <b>(Psy. Divn.)</b>
Identiiication of Hazards/Stresses in Industry	15th Apr 19th Apr. 1996		C.L.l Mumbai ( <b>Phy. Divn.)</b>
Selection & Quality Assurance for Effective use of PPE	9th Apr. <b>-</b> 11th <b>Apr 1996</b>		C.L.I., <b>Mumbai</b> (Ind. Hyg. <b>Divn.)</b>
Supervisory Development	15th Apr. • 19th Apr. 15%		C.L.I Mumbal (Staff Trg. <b>Divn.)</b>
Industrial Safety & Health (Hindi)	15th Apr. • 19th Apr. 1996		C.L.I., Mumbai (Safety <b>Divn.)</b>
Partkipative Approach for Safety & Health	22nd Apr. • 26th Apr. 1996		C.L.I.; Mumbai <b>(Psy. Dlvn)</b>
TQM <b>&amp; ISO-9000</b>	22ndApr. 26th Apr. 1996		C.L.I., <b>Mumbai</b> ( <b>Productivity Dvn.</b> )

**Announcements** 

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Course Title	Date	Level	Venue
Advanced Training Programme on Occupational Health & Environmental Medicine.	<b>20th May -</b> 31st May1996		C.L.I., Mumbai (Indl.Medicine Divn.)
Electrical Safety	8th May • 10th May 1996		C.L.I., Mumbai S <b>afety Divn.)</b>
Industrial <b>Ergonomics</b> for augmenting Safety, Health <b>&amp; Productivity</b> at work	<b>13th May -</b> 17th May 1996	•	C.L.I., Mumbal ( <b>Phy. Divn.)</b>
Safety In <b>Engg</b> . Industry	22nd May- 24th May 1996		C.L.I., Mumbal safety <b>Divn.)</b>
Indl. Safety for CIS	12th June- 14th June 1996		C.L.I., Mumbal <b>(Safety Divn.)</b>
Identifiiation of Hazard/Stresses in Industry	17th June- 21st June 1996	•	C.L.I., <b>Mumbai</b> ( <b>Phy. Divn.</b> )
Diploma In Industrial Safety 1996-97	24th June- 30th June 19%		C.L.I Murnbal (Safety <b>Divn.)</b>
Team Building	24th June- 23th June 1996	•	C.L.I Mumbal (Staff <b>Trg</b> .; <b>Dlvn.)</b>

#### **TRAINING PROGRAMMES**

JANUARY - JUNE 1996

#### REGIONAL LABOUR INSTITUTE, LAKE TOWN. CALCUTTA-700 089.

Course <b>Title</b>	Date	Level	 Venue M
Seminar on role of ILO and DGFASLI in preventing accidents and occupational disorders.	3rd week of Jan. 1996.	•	R.L.I. Calcutta
Safety Engineering and Management.	2nd week of Feb. 1996.	•	-DO-
<b>Chemical</b> Safety for worker members of Safety Committee	3rd week of Feb. 1 <b>996.</b>	•	-DO-
Advanced Action orlented prog. on <b>Safety, Productivity</b> and a better place to work.	3rd week of Feb. 1996.	-	-DO-
Worker Development Programme.	4th week of Feb. 1996.	•	-DO-
Training Programme on Chemical <b>Safety</b> for Worker Members of the Safety Committee	13th • 15th Feb.	19% Worke	r <b>-DO-</b>
Safety Engineering and Management	1 <b>ìth •</b> 15th Mar.		gement
Appreciation Course in industrial Hygiene	22nd - 26th Apr.		/Senior -DO- ves
<b>Train-the-Trainer</b> Workshop on Safety in the use of chemicals	13th • 17th May		<b>rs/</b> Safety

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۸ - ۱۳۰۰ بر در بروست الاقترار و ۱۳۰۰ بر جود به در سطيفين و الاقترار و بروست با الا	200 وونون وووو و 170 «خنين»، به نه به خفظ <u>نان و 1</u> 000 د		242402777777777777772222222
Course Title	Date	Level	Venue
Safety, Health and <b>Environ</b> -ment at Workplace	3rd week of May 1996	Middle Ma	•
<b>Training</b> Programme on <b>Safety</b> Audit	2nd week of June	Jr./Sr. Exectincluding Sate Officers	cutives <b>-DO-</b> afety
Safety. <b>Health</b> and <b>Environ</b> -ment at Workplace	4th week of June	Jr./Sr. Exe	ecutives <b>-DO</b> -

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#### **TRAINING PROGRAMMES**

#### JANUARY -JUNE 1996

#### REGIONAL LABOUR INSTITUTE, SARDAR PATEL ROAD, MADRAS-600 1 13.

Course Title	Date	Level		ue
Management of hozor-dous substances.	Sth-12th Jan. <b>1996.</b>		R.L.I.	Madras
Improvement of working conditions and productivity in small & medium scale industries.	<b>15th-25th</b> Jan. 1596.		-	DO-
Hazard and Operability (Hazop)	<b>7th-9th</b> Feb. 1996			-DO-
Safety In Chemical Industry	<b>21st-23rd</b> Feb. 1996			-DO-
Identification Analysis, Assessment and Control of major accident hazards In chemical industries.		996		-DO-
Management of <b>Hazar- dous</b> Substances	12th • 16th Feb. 199	<b>6</b> Ma	nagers	-DO-
Workshop on <b>'Improve-</b> <b>ment</b> of Working <b>Condition</b> and Productivity in Small & Medlum Scale Enterprises'	rs		all Scale epreneurs	Palakkad
Hazard and Operability Study <b>(HAZOP)</b>	5th - 7th Mar. 1996		nior ( agers	<b>R.LI</b> , Madras
<b>Specialised</b> Course in <b>Chemical</b> Safety	20th • 24th May 19		ety Pro- onals	-DO-

## TRAINING PROGRAMMES JANUARY-JUNE, 1996 REGIONAL LABOUR INSTITUTE, BARVODAYA NAGAR, KANPUR-208005.

course Title	Date	Level	
Industrial Safety Hygiene	8th - 12th Jan. 1996	- R	l.L.I. Kanpur
Safety & Law	12th • 16th Feb. 1996	•	-DO-
Executive Excellence	1 lth • 15th Mar. <b>1996</b>	•	-DO-
Training Programme on Industrial Safety & Hygien	<b>8th •</b> 12th Jan. <b>1996</b> e	Middle Management	-DO-
Training Programme on Safety & Law	12th • 16th Jan. <b>1996</b>	Executives	-DO-
Training Programme on Industrial Ergonomics for <b>Augumenting</b> Safety, <b>Heat</b> & Productivity at Work	<b>18th</b> -22nd Mar. <i>1996</i>	-DO-	-DO-
Training Programme on Assessment of Hazards in the Working Environment of Industries	<b>22nd -</b> 26th Apr. 1996	-DO-	-DO-
Training Programme on <b>Testintg &amp;</b> Examination of <b>Lifting</b> Machines Tackles a Pressure Vessels	•	-DO-	-DO-
Training Programme on Team <b>Building</b> for Hearth Safety & Welfare	10th • 14th June, 1996	-DO:	-DO-

#### **INDOSHNET**

Government of India, Ministry of Labour & developing a national network on occupational safety and health information system known as 'INDOSHNET'. Directorate General Factory Advice Service & Labour Institutes (DGFASLI), an attached office of the Ministry of Labour, will act as nodal agency facilitator of the network system. The objective of the network is reinforcement and sharing of national occupational safety & health (OS & H) Information on no-profit and no-loss-bash with a view to pool our information resources for mutual benefit. The sharing of information will not confine to the **national** level but also include international sources. The **communication** of information will be through E-mail (NICNET) as well as postal/courter service. We invite **industrial organisations,** institutions, industries **associations**, trade unions, professional bodies and non-governmental organisations having information on OS & H and willing to share the same with others at the **national** and International level to **participate** as member In the network interested agencies. may please write with a **brief** profile of their organisation and Information capabilities clearly indicating type of OS & H information required and the information available that can be shared with others to Shri S.K. Saxena, Director General, Directorate General Factory Advice Service & Laboui Institutes, N.S. Manklkar Marg, Sion, Mumbai- 400 022 within 30 days of the publication date of this announcement.

Note: Those who responded to our earlier **communication** have, been enrolled and need not **write** again.

### GOVT. OF INDIA, MINISTRY OF IABOUR DIRECTORATE GENERAL FACTORY ADVICE SERVICE & IABOUR INSTITUTES

The Directorate General Factory **Advice** Service **& Labour** Institutes **(DGFASL)** is an attached **office** of the **Ministry** of **Labour**, Govt. of **India**. **DGFASLI organisation** was set up In **1945** under the Ministry of **Labour**, Govt. of India to serve as a technical arm to **assist the** Ministry in formulating notional policies on occupational safety and health in factories and docks and to **advise** State Governments and factories on matters concerning safety, **health**, **efficiency** and well-being of the persons at work place. It also enforces safety and **health** statutes in major ports of the country,

The **Directorate** General Factory Advice Service & Labour Institutes (DGFASLI) comprises :

- Headquarters situated In Mumbai
- Central Labour Institute, Mumbal
- \* Regional Labour Institutes at Madras, Kanpur, Calcutta and Faridabad\*.

The Central **Labour** Institute at Mumbal functions as a socioeconomic laboratory and is a national Institute dealing with the **scientific** study of all aspects of Industrial development relating to the human factors.

Over the past 25 years the Central **Labour Institute** has constantly grown not only In **size** but also In statute and has earned **national** and International recognition. It has been recognised by the **International Labour Organisation** as a **centre** of excellence in training on Occupational Safety and Heaith In the Asian and **Pacific** regins. It also functions as a National Centre for **C.I.S.** (Internatinal Occupational Safety and Health Information Centre) and the Centre for National Safety and Health Hazard Alert System. At the national level, apart from providing research and training support to the government and functioning as a technical arm of the **Ministry** of **Labour**, the Institute provides comprehensive and **multi-disciplinary services** to the **Industrial** Port sector through **studies**, technical advice, training, and dissemination of Information. It also runs **Natinal** Referral **Diagnostic** Centre for early detection of **occupational disorders** and thereby **controls** and prevents them. It has a modem Audio Visual **Studio fully** equipped **with** sophisticated video production equipment to produce quality **U-matic** video on Safety and Health. The Regional **Labour** Institutes are a scaled-down version, of Central **Labour Institute** and cater to the needs of their respective regions.

The **organisation** is poised to grow further, and meet the increased demands on **it**. In a developing country with a large number of industries having diverse and complex nature, the task of protecting safety and **health** of the employees **is** an uphill task. Armed with the technology, **good-will** of the industrial **society** and the strength of the dedicated staff, the organisation **is** well prepared to meet the **challanges** of tomorrow. It **is** committed to the goal of making the workplace safer.

\*Being setup

## DIRECTORATE GENERAL FACTORY ADVICE SERVICE & LABOUR INSTITUTES ESTABLISHMENTS IN INDIA

