

GOOD MORNING

*Min ga lar bar*

# Safety Measures for Machinery in Myanmar

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Long Long ago,

Production - By Manual

After Industrial revaluation -

Use - Machinery

Now - Automatic Machine (or)  
Robot (or) other advanced  
Machine

Accident and Illness

For Safe Production -

Safety Measure for Machinery - Important

# Situation of Factories in Myanmar

- Myanmar - Agricultural Country
  - Rural Area - Majority of Factories but small & old
    - Using Single Prime mover
  - Power Transmission - Pulley, belt and shaft
  - Urban Area - Industrial Zone.
    - So far (18) Zones
  - Using - Modern day production Machine.
- New Technology, Chemical, Machine, Process.  
Unfamiliar and less knowledge

# Organization for OSH

## Only Government Organizations

- FGLLID
- Electrical Inspection
- Boiler Inspection
- Mines Inspection

# Legal Provisions for Machine Safety in Factories Act

1. Fencing of Machinery
  - Prime movers
  - Transmission Machinery
  - Other Machinery
2. Work on or near Machinery in motion.
  - Examination
  - Mounting or shipping of belts
  - Lubrication
  - Adjusting operation
  - must be specially trained adult male workers
  - Wearing tight fitting clothing

3. Employments of young persons on dangerous machinery.

- sufficient training in work at the machine
- under supervision of experienced persons

4. Devices for cutting off power.

- suitable striking gear or other efficient mechanical appliance
- no permit to rest or ride upon shafting in motion not using.
- in case of emergency , power cutting off system

5. Shuttling Engine.

- not less than 14” distance backward and forward shuttling

6. Casing of new machinery.
  - Guard every setscrew, bolt or key on any revolving shaft , spindle, wheel or pinion
  - no need to require frequent adjustment spur , worm other toothed or friction gearing completely encased
7. Prohibition of employment of women and children near cotton opener
  - no women or child employee in any part of cotton opener
8. Revolving machinery.
  - permanently affixed near machine notice of maximum safe working peripheral speed of revolving machinery.



9. Power to require specification of defective parts of tests of stability.
  - any part of building ,machinery or plant to notice to carry out immediately , in case of dangerous condition to human life or safety
10. Safety of building and machinery.
11. Circular saw protection.
  - crown guard
  - riving knife
  - bottom guard
  - skilled and experienced person

# Methods of Safety Measure for Machinery

## 1. Legislation

- The Factories Act
- The Oil Fields Act

## 2. Inspection

- Annual plan target by head quarter
- Quarterly program by inspector

## 3. Accident Investigation

- Investigation priority fatal or serious accident
- Make corrective action

4. Tacking action on factories happened fatal accident

- Immediately investigation
- Shut down
- Issue necessary instruction
- Rechecking
- OSH program and training
- Permission to reopen

5. Education

- In-plant training
- Departmental training

# Analysis and conclusion

1. Human related factors
2. Equipment , material facility related factor
3. Environmentally related factor
4. Other

# Preventive Measure

For manager –

- (1) Prohibit workers who work on or near moving transmission machinery wearing loose clothing.
- (2) Comply with rule and regulation regarding fencing and guarding
- (3) Give specific responsibility to shop floor supervisors to train worker on-the-job in safe methods of work.

For shop floor supervisor –

- (1) Supervise the workers observe safety rules and do not resort to unsafe work practices.

For Workers –

- (1) Abide strictly by orders and instructions with regard to safety in operation.
- (2) Do not wear loose clothing like longyis working at moving machine

## **Regulations for Machinery Safety**

In the preventive measures listed above is the requirement that employers abide by the stipulations of the relevant sections of the Factories Act. In this regard it would be helpful both for compliance by factory managers and enforcement by inspectors if regulations pertaining to machinery safety including transmission machinery safety were made under the Factories Act. Such regulations could be based on regulations concerning guarding of machinery, including power transmission equipment, contained in the ILO's "Model Code of Safety Regulations for Industrial Establishments for the Guidance of Government and Industry".

THANK YOU

*kyae zu tin par tal*