

# **Challenges of Firecracker Industry**

### Why in news?

Recently, a blast in Tamil Nadu licensed firecracker unit located in Virudhunagar district claimed the lives of at least 12 workers.

#### Status of Firecracker Industry in Tamil Nadu

• Tamil Nadu, and particularly Sivakasi, an arid region in Virudhunagar district, has been known as the *fireworks capital of the country*.

- Sivakasi accounts for <u>90% of fireworks</u> production in India.
- India is the 2<sup>nd</sup> biggest producer of fireworks, after China.

• According to Tamil Nadu Fireworks and Amorces Manufacturers Association (TANFAMA), there are around 1,085 cracker manufacturing units in and around the Sivakasi region.

• At least 8 lakh people are directly and indirectly involved in the fireworks and allied industries, including transport.

• Former Prime Minister Jawaharlal Nehru termed Sivakasi as <u>*"Little Japan"*</u> because it is also the leader for printing, fireworks and safety matches production.

### What are the challenges with the firecracker industry?

- **Illegal units** The industry in Tamil Nadu has become much more dispersed with many illegal units.
- Work burden- Workers are engaged to work for 8 to 12 hours during the festival season.
- Lack of regulation- The cracker units function with little supervision, monitoring, or official inspections resulting in increased accidents.
- Though the work in the unit happens year round, monitoring is done only during the festive season.
- Lack of training- Many units employ workers without any training resulting in mishandling of explosives by inexperienced and untrained youth.
- Lack of experience- During festive season, licensed units sub-lease work to smaller units which have no experience and 80% of accidents happen during this process alone.
- Lack of safety Fireworks manufacturing units often ignore safety norms with an intention to increase productivity in a short span of time.
- The cracker units stock chemicals above the permitted limits which trigger the explosion in firecracker unit.
- Manufacturing in house- Production of crackers in houses causes many blasts.
- Shortage of manpower- <u>Petroleum and Explosive Safety Organisation</u> (PESO), the licensing and regulating authority for large fireworks units, is short-staffed.
  - $\circ\,$  There are only 5 officials to monitor more than 1000 units.
- Health effects- Due to high chemical usage, lungs of the workers are affected and

skins are burned.

### National Green Tribunal Ruling in Virudhunagar Blast

• NGT took suo motto cognizance of a blast in Virudhunagar district in 2021 and formed an

8 member committee to suggest measures to prevent such accidents in the future.

• The panel suggested that

- The *Explosives Act be amended* to make punishments more stringent than now,

- Employing <u>only certified persons</u> for operations including mixing, filling of chemicals and making of colour pellets

- <u>Usage of drones</u> for surveillance of various firecracker industry

• It directed the Tamil Nadu government to take appropriate action against the factory owners and officials responsible for the blast.

• It also directed the State government to prepare an action plan for proper management and disposal of hazardous waste generated by firecracker industries.

### What actions must be taken to prevent firecracker accidents?

- **Constant monitoring-** Effective monitoring must be ensured and the enforcing agencies should take strict actions against violators and illegal units should be eradicated.
- Periodical inspection is the need of the hour.
- **Skilled workers-** Only trained workers should be allowed to work in these units so that explosion will be reduced.
- **Committee** State level committee headed by Chief Secretary and District level committee headed by District Collector must monitor the units for ensuring safety measures.
- **Mixing ratio** The chemical mixing ratio should be automated to reduce the accidents, as it accounts for majority of accidents.
- **Responsibility** The industry should take the responsibility of the life and the health of workers.

# FOR SAFETY SAKE

The following measures should be taken to avert fire accidents in firecracker manufacturing units and godowns:



Workers should careful not to drop boxes during loading and unloading; trolley made of aluminum/brass fitted with rubber wheels can be used

## **Quick facts**

#### **Petroleum and Explosive Safety Organisation (PESO)**

• PESO, formerly known as *Department of Explosives*, since its inception in <u>1898</u>, has been serving as a nodal agency for regulating safety of hazardous substances such as explosives, compressed gases and petroleum.

• PESO's major work is to administer the responsibilities delegated under the <u>Explosives</u> <u>Act 1884</u> and <u>Petroleum Act 1934</u> and the Rules made there under with the motto "<u>Safety</u> <u>First</u>".

• Headquarters- Nagpur, Maharashtra

• **Objective**- Provide operational and technical advice and assistance to central government, states, local bodies, law enforcement agencies, industry, trade and end users

#### References

- 1. The Hindu- Tamil Nadu tragedy plagued fire cracker industry
- 2. The Hindu- Flouting norms in fireworks unit

