

GOVERNMENT OF INDIA
MINISTRY OF STEEL

LOK SABHA
UNSTARRED QUESTION NO.1095
FOR ANSWER ON 08/02/2021

ACCIDENTS IN STEEL PLANTS

1095. SHRI. RAMESH CHANDRA MAJHI:

Will the Minister of STEEL be pleased to state:

- (a) the measures taken to check the industrial accidents in steel plants run by the Steel Authority of India Limited(SAIL) during the last five years;
- (b) whether any detailed annual or periodical report is made of these industrial accidents after listing these accidents in the steel plants;
- (c) if so, the details thereof;
- (d) the details of the industrial accidents that took place in the Rourkela steel plant during the last five years; and
- (e) the details of the compensation and other facilities given to the injured workers and employees of Rourkela steel plant during the last five years?

ANSWER

THE MINISTER OF STEEL

(SHRI DHARMENDRA PRADHAN)

(a) The details of measures taken to check the industrial accidents in the Plants/Units of SAIL are given at **Annexure – 1**.

(b)&(c): Yes, Sir. Detailed analysis i.e. cause-wise, location-wise, age-wise, shift-wise etc. is carried out for the fatal accidents occurred during preceding year and the details are published in the form of an Annual Report which is circulated among all Plants/Units as a learning for preventing such accidents. Investigation and root cause analysis is carried out for every accident and recommended measures are implemented to prevent recurrence. Actions taken are also reviewed periodically at various levels. The findings are also shared with other Plants/Units to prevent accidents.

(d) The details of industrial accidents (fatal and reportable) occurred during last five years in Rourkela Steel Plant are at **Annexure – 2**.

(e) Compensation and other facilities given to the injured workers and employees of Rourkela Steel Plant as per provisions of the Acts/Statutes and Company's Policies/Rules are as following:-

- Compensation/Benefits admissible as per the Employee Compensation Act /ESI Act, as applicable.

Contd.....2/-

-: 2 :-

- Though not a statutory liability, compassionate employment to one of the eligible dependents in case of death or permanent total disablement of employees due to accident arising out of and in course of employment; Employment to one of his / her dependents in case of death of a contract labour, due to accident arising out of and in course of employment within the works premises (including those engaged for project work).
- Medical facility by Rourkela Steel Plant /ESI.
- Benefits under Employee Family Benefit Scheme (EFBS) for ex-employee/ dependents of ex-employee in case of permanent total disablement and death respectively, if employment for dependents is not opted for (i.e. in lieu of employment).
- Benefit under Life Cover Scheme/Employee Deposit Linked Insurance Scheme (LCS/EDLI) to total disabled employee.

Measures taken to check industrial accidents

SAIL management is committed towards bringing continual improvement in safety standard of the Plants/Units. Some of the salient safety measures taken are as follows:-

- i. SAIL has implemented 15 process based safety guidelines for its Plants.
- ii. Engagement of consultant for 'Safety Management consulting assignment' in Bhilai Steel Plant for a period of two years.
- iii. Certification of OHSAS-18001 and subsequent migration to ISO-45001 OHSMS system.
- iv. Preparation of Safety Alert Messages (SAMs) on learning points from accidents. Following 18 SAMs issued till date:-
 - Safety precaution in arc welding,
 - Grinder safety,
 - Crane safety during maintenance,
 - Safety in operation of dumpers,
 - Safety in storage and handling of Furnace / Fuel Oil,
 - Safety during maintenance job on transformers / HV equipment,
 - Safety during maintenance job on wagon tippler drive,
 - Pre-start up safety guidelines for post lockdown period,
 - Safety during working in low voltage equipment / lighting circuits,
 - Hazards of Nitrogen Asphyxiation,
 - Boiler safety,
 - Compulsory usage of seat belt and adhering to speed limits,
 - Guidelines for preparation of standard work procedures,
 - Safety precautions while working in high voltage lines, circuits, cables etc.,
 - Take 5 (Personal Risk Assessment Process),
 - Safety during load lifting handling by crane,
 - Safety precautions during operation of heavy machinery, and
 - Scaffolding safety.
- v. With a view to improve safety standards, a system of identifying Good Safety Practices in plants/units of SAIL/steel industry introduced in the form of G-SaP (Good Safety Practices). The following 04 G-SaPs circulated till date:-
 - Voltage Reducing Device (VRD) in Arc Welding Machines.
 - Safety Clearance from Safety Engg. Deptt. before starting contractual jobs.
 - IT based Safety Management System (SMS) in Bhilai Steel Plant.
 - Usage of RCBO (Residual Current Breaker with Overload protection).
- vi. Adoption of latest and state-of-the art new technologies in new projects to minimize human exposure to process hazards.
- vii. Compliance to all applicable statutory rules and regulations.
- viii. Thrust on systematic approach to safety management on continual basis (organising internal/external safety audits, inspections along with timely compliance and review).
- ix. Development of safety standards and guidelines, SOPs and SMPs (Standard Operating and Maintenance procedures), HIRA (Hazard identification and Risk Assessment) documents etc. and their periodic review / updation.

- x. Adherence to protocol/ permit to work system for hazardous jobs, during capital repairs/ major breakdown repairs involving multi agencies.
- xi. Setting up of a Safety Excellence Centre for safety briefing of Plant visitors.
- xii. Preparation of On-site emergency preparedness plans approved by concerned factory inspectorate and organizing periodic mock drills.
- xiii. Adherence to Standard Operating and Maintenance Procedures, Safe Commissioning Procedure etc.
- xiv. Mandatory two days induction training to contract workers before issue of gate pass and job safety training at work site. Mass awareness workshops for contract workers are regularly organized.
- xv. Strict monitoring during execution of project jobs by contract workers.
- xvi. Spreading safety awareness through training programmes and workshops for all level of employees including contract workers.
- xvii. Conducting Safety and fire prevention inspections as per checklist and liquidating deviations from prescribed norms.
- xviii. Ensuring usage of job specific Personal Protective Equipment (PPEs) by all concerned including contract workers.
- xix. Provision of online gas monitors with audio-visual alarms/ usage of fixed and portable CO detectors in gas prone areas and periodic gas safety training to spread awareness.
- xx. Monitoring health of pipelines by periodic NDT (Non- destructive test) and documentation for timely actions in respect of cladding/ replacement of damaged portions.
- xxi. Undertaking periodic drives/campaigns on rail and road safety, machine guarding, proper working platforms and railings, illumination etc. Undertaking 'Roko-Toko' to identify violators of safety norms.
- xxii. Displaying safety signages, posters and slogans, Do's & Don'ts etc. at conspicuous locations. Installation of Audio-visual alarms and signals at the railroad crossings.
- xxiii. Investigation of accident cases, analysis/review of all incidences including near miss/dangerous occurrence cases and taking control measures.
- xxiv. Online IT interventions for safety suggestions and Near Miss reporting.
- xxv. Use of CCTV cameras for safety monitoring and surveillance throughout the plant.
- xxvi. Use of Public Address system at Gates as well as through mobile van for increasing safety awareness.
- xxvii. System of monitoring and implementation of safety related issues thru' Departmental Safety Officers (DSOs) in deptt. strengthened.
- xxviii. Behaviour Based Safety (BBS) implemented and monitored.
- xxix. Periodic review of safety performance at different levels.
- xxx. Employees rewarded for good safety performance.

Annexure - 2

Details of Industrial Accidents (Fatal + Reportable) occurred in Rourkela Steel Plant during 2016 to 2020.				
2016	2017	2018	2019	2020
5	5	8	6	1
