

Issue No.: 01

Rev. No.: 0

Date of issue: 23.08.2022

Doc. No: HSE/Standard/11

TITLE: Machine Safety

## Machine Safety

### Purpose

To ensure a safe operation and inspection of equipment and machinery including powered hand power tools used in manufacturing plants, work locations, R&D Centres, Ware house of HSCL, irrespective whether they are owned by company or used on behalf of company. The aim is to prevent injury / accident during operations of these equipment. However, this standard does not include hand tools, lifting equipment, pressure vessels etc.

### Scope:

This Standard is mandatory and applies to all manufacturing plants (process areas, Lab, Electrical Panel Rooms, Control Rooms, Warehouses, Maintenance Workshops, off-site Field Execution areas etc.) of HSCL. A machine register must be available at all locations, covering all equipment and machinery.

### Machine Hazard Assessment:

All equipment and machinery used by HSCL (on-site/ off-site) must be risk assessed for possible hazards, to ensure they are in good condition, fit and safe to use, thereby reducing chance of injury/ accidents to operators. All inter-locks, light barriers, light curtains, emergency switches and other safety controls shall also be risk assessed. The assessment shall include following hazards not limited to:

- Risk to employees operating equipment or machinery in terms of likelihood and Severity of injuries and the duration of exposure.
- Safe access to/from machines (access, egress) and escape during an emergency.
- PPE, Loose clothing, hair and ornaments
- Being struck by ejected parts of the machinery
- Being struck by material ejected from the machinery
- Contact or entanglement with the machinery
- Contact or entanglement with any material in motion
- Electrical hazards
- Chemical hazards (from cutting fluids, lubricants, etc.)

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