

Safety and Health Standard	<i>Safety and Health Standard >General Safety</i>	Enforcement Date: 26.05.2025	Page: 1/5
posco MAHARASHTRA STEEL	Confined Space Work Permit		Rev.: 01 P/HSE/028

1.0 SCOPE

This procedure is applicable for POSCO Maharashtra Steel Pvt. Ltd. and outsourced companies working in the premises.

A representative list of jobs, which would necessitate raising a permit, is listed below

1.1 General Work Permit

2.0 PURPOSE

- 2.1 To lay down a procedure for establishing the system and the procedure which will identify all hazards, assess the risk and identify safe method of work for a given task ensuring that the hazards are eliminated and/or the residual risks are minimized and controlled.
- 2.2 Certain construction, maintenance, cleaning and engineering tasks are associated with potentially high HSE risks. Confined Work permit provides management with a mechanism for achieving a high level of control over confined space hazards by ensuring that appropriate communication occurs and that precautions are in place before the work starts.
- 2.3 This procedure also meets an objective of compliance with the requirements under Section 36 a & b of the Factories Act and Rules 73C, 73F & 73H of the Maharashtra Factories Rules 1963.

3.0 RESPONSIBILITY

- 3.1 Permit initiating department and permit receiving department will responsible for preparation and checking.
- 3.2 TL & Member-HS for checking & maintaining stocks of permit formats.
- 3.3 TL & Member-HS dept.-Develop, review and revision of Work Permit formats.
- 3.4 HOD-HSE Providing necessary training, approval, monitoring and review of procedure and its relevant formats.
- 3.5 HSE Dept will impart necessary training to all staff authorized to issue or receive the permits for systematic implementation of permit-to-work system.
- 3.6 Monitor the implementation and effectiveness of the Permit-to-work Systems will be carried out by HSE dept.

4.0 ACCOUNTABILITY

- 4.1 Signatories of permit.

5.0 PROCEDURE

- 5.1 Vessel Entry /Confined Space Entry Permit

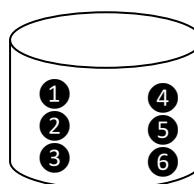
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- 5.1.1 In case of entry into confined space, condition must be free from asphyxiating, toxic, flammable or corrosive substances.
[Factory act – section 36]: No person shall be required to enter a confined space until it is rendered safe and tested by a competent person.
- 5.1.2 Power driven equipments/machinery inside the confined space MUST be electrically isolated, fuses and drive belts removed and tagged.
[Rule 61P of Maharashtra Factories Rules]: All equipment must be isolated, locked out and drive belts removed and the system tagged.
- 5.1.3 Check the presence of toxic chemicals with the help of toximeter or Dragger Pump (Concentration MUST be NIL).
[Factories Act – Section 87]: The Presence of hazardous Substances in the Working Environment must be monitored and controlled.



- 5.1.4 Check flammable vapor concentration with EXPLOSIMETER. It should be NIL.
- 5.1.5 Oxygen content must be minimum 20% (Check with Oxygen Meter).

[Rule 61Q (1)(c) of Maharashtra Factories Rules]: Confined space must be tested to ensure that the oxygen level is between 19.5%to 23.5%



<----- Check Oxygen at every level

- 5.1.6 Name of chemical:
5.1.7 TLV of chemical:
5.1.8 Actual TLV reading in PPM.

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5.1.9 All inlet/outlets of vessels must be isolated/blanked positively.



[Rules, Rule 61Q(1)(b)]: Positive isolation (e.g. blanking or double block and bleed) is mandatory to prevent the ingress of hazardous substances.

5.1.10 All manhole cover, drains, vents are open to safe position.

[Rule 61Q(1)(d): Adequate openings must be provided for ventilation and rescue operations.]

5.1.11 No toxic, corrosive, flammable and asphyxiating substances are present in the vicinity of the confined space, which are likely to enter into the confined space.

[Factories Act – Section 41B & 41C]: Hazard assessment must include adjacent processes and environments.

5.1.12 Ensure Confined space is well ventilated by Blower or similar means

[Maharashtra Factories Rules, Rule 61Q (1)(a)]: Mechanical Ventilation must be provided to ensure safe oxygen levels and removal of harmful gases.

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5.1.13 Men working in the confined space MUST wear helmet and safety belt with life line and a person should stand outside the confined space for holding the life line of safety belt continuously so that men working in confined space can be rescued if any emergency arises.

[Maharashtra Factories Rule 61Q(1)]: A person shall be stationed outside the confined space to maintain communication and assist in case of recuse.

5.1.14 Portable electric light/lamp and other electric appliances MUST NOT exceed twenty-four volts.

[Factories Act – Section 36A and Rule61Q(1) (f)]: To Reduce shock risk ,Only

low-voltage portable electrical lighting should be used in confined spaces.



5.1.15 If any flammable gas, fumes, vapors or dust is likely to be present in the confined space, use only flameproof type of lamp and other electrical equipment.

[Factories Act – Section 37 (2) (b)]: No equipment capable of causing a spark or ignition shall be used unless it is certified as flameproof.

5.1.16 Work permit is valid for general shift only

5.1.17 For rescue all material like

Rope

Ladder

SCBA

Standby Person

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Shall be ready for emergency

Version Number	Effective Date	Reason for Revision
00	25-01-2012	New Procedure adapted.
01	19-01-2025	Changed Department name & Revision Number