



NLC TAMILNADU POWER LIMITED

SAFETY DIVISION

STANDARD OPERATING PROCEDURE

TITLE:- SOP- HANDLING OF GAS CYLINDER

NTPL//SOP-04

I.HANDLING OF CYLINDERS: -

1. Secure protective caps on all cylinders not in use.
2. Properly secure cylinders in an upright position during movement.
3. Do not use slings or ropes for moving cylinders.
4. All cylinders shall be properly labelled.
5. Do not strike cylinders together.
6. Keep valves on empty cylinders closed at all times.
7. Use cylinders trolleys, material baskets, cylinder racks, and other proper types of equipment to transport cylinders.
8. Only rely on the supplier's tag to determine the contents of a compressed gas cylinder.

II. USING OF CYLINDERS.

1. Use approved pressure – reducing regulators with a check valve connected to the cylinder valve on all cylinders.
2. Always close the cylinder valve before attempting to stop leaks.
3. Do not use oil or grease as a lubricant on valves or attachments.
4. Threads on fittings shall correspond to cylinder valve outlets.
5. Inspect cylinders for safe condition before use.
6. Protect cylinders from direct flame, sunlight, and other heat sources.
7. Inspect all gauges, regulators, hoses, and cylinders for damage and current hydrotest date.
8. Place flashback arrestors at oxygen/acetylene cylinder regulators for



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cutting, welding and Brazing.

III. STORING OF CYLINDERS.

1. Store cylinders in an upright, secured position, and cylinder racks wherever possible.
2. Keep stored O₂ cylinders separated from fuel gas cylinders suitable distance on non-combustible barrier.
3. Keep cylinders away from direct flame, sunlight, and other heat sources.
4. Do not store cylinders at temperatures exceeding 540C.
5. properly identify empty and full cylinders.