

## Construction Safety Guidelines No. 11b

## Gas Welding & Cutting

		
<p><b>LOCATION OF WORK &amp; TROLLEY</b></p> <ul style="list-style-type: none"> <li>Keep the flammable storage away from the gas welding &amp; cutting operation.</li> <li>Keep &amp; store the gas cylinders away from the source of heat.</li> <li>Always keep the gas cylinders vertical in a trolley &amp; tied with chain.</li> <li>Do not lift gas trolley with crane.</li> </ul>	<p><b>HOT WORK PERMIT</b></p> <ul style="list-style-type: none"> <li>Obtain Hot work Permit from the area supervisor &amp; to be closed daily.</li> <li>Cordon off the area &amp; display the permit where welding &amp; cutting work is carried out.</li> <li>Operations shall be shielded by non-combustible or flameproof screens to protect people working in the close vicinity.</li> <li>Flammable containers shall be drained, washed, dried thoroughly &amp; purged with inert gas.</li> </ul>	<p><b>FLASH BACK ARRESTOR, HOSE PIPES &amp; PRESSURE GAUGES</b></p> <ul style="list-style-type: none"> <li>Ensure that Flash back arrestors are provided on both the cylinders.</li> <li>Provide <b>RED</b> colour hose pipe for Acetylene cylinder &amp; <b>GREEN</b> for Oxygen cylinder.</li> <li>Hose pipes must be connected with proper clamps.</li> <li>Maintain pressure gauges in working condition.</li> <li>Torch should be kept free from molten metal slag.</li> </ul>
		
<p><b>FIRE FIGHTING EQUIPMENT &amp; USE OF PPE</b></p> <ul style="list-style-type: none"> <li>Provide appropriate fire fighting equipment as prescribed by the Civil Defense.</li> <li>Workers shall be protected by suitable eye, face, hand, body, foot &amp; respiratory protective equipment.</li> </ul>	<p><b>STORING GAS CYLINDERS</b></p> <ul style="list-style-type: none"> <li>Provide adequate mechanical fume extraction &amp; / or forced ventilation whenever work is not carried out in the open air.</li> <li>Gas cylinders shall be stored in a well ventilated shed made up of non flammable material.</li> <li>Keep the valve caps in place.</li> </ul>	<p><b>TRAINING &amp; FIRE WATCH</b></p> <ul style="list-style-type: none"> <li>Contactors shall instruct workers in the safe means of arc welding and cutting.</li> <li>Provide fire watch for at least an hour after completion of welding or cutting work.</li> </ul>