

Guidelines – Excavation



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<p style="text-align: center;">PRIOR TO EXCAVATION</p>	<p style="text-align: center;">BARRICADE THE AREA</p>	<p style="text-align: center;">DISPLAY NOTICES</p>
<ul style="list-style-type: none"> • Identify the presence of underground installations & take necessary safety precautions. • Obtain NOC from service authorities & Roads Department. • Ensure that Risk Assessment is done for excavations exceeding 1.2mtrs. & necessary safety precautions taken. • Employ cable avoidance tool (CAT) prior to excavating. 	<ul style="list-style-type: none"> • Adequately barricade the area to be excavated. • Do not stack any material near the edge of any excavation, shaft, pit or opening in the ground. • No load or plant or equipment shall be placed near excavation to prevent collapse. • Provide sufficient lighting for safe operations 	<ul style="list-style-type: none"> • Display adequate warning notices in languages understood by the workers. • Provide flashing amber lights if excavation is left open overnight & there is a risk of vehicles passing by. • No unauthorized access to be permitted.
<p style="text-align: center;">PPE AND FRESH AIR</p>	<p style="text-align: center;">SAFE ACCESS & EGRESS</p>	<p style="text-align: center;">SHORING & DEWATERING</p>
<ul style="list-style-type: none"> • Personal protective clothing & equipment shall be provided to the employees & be worn. • Contractor shall provide instruments to test the atmosphere for oxygen deficiency in any excavation. • Provide adequate ventilation where there is insufficient movement of air. • Ensure that minimum of 19.5% & maximum of 23.5% oxygen level by volume is maintained in the air. • Do not allow any person to enter if the air is suspected to be poisonous or asphyxiating. 	<ul style="list-style-type: none"> • Provide ladder or steps for safe access & egress. • Evacuation plans & procedures must be made known to employees. • As per DM Regulations an emergency hoisting facility shall be readily available at shafts more than 15 metres. In depth. 	<ul style="list-style-type: none"> • If the depth of vertical cut exceeds 1.5m provide shoring. • Provide shoring if there is a possibility of fall or dislodgement of earth, rock or other material. • The angle of repose & design of the supporting system shall be based on depth of cut, soil, loading, system of dewatering, vibrations, traffic etc. • Ensure that surface water does not enter the excavated areas & / or water shall not be allowed to accumulate in an excavation.