

Agriya Constructions

Method Statement / Statement of Procedure – EXCAVATION

- Obtain the good for construction drawings from the Architect/Engineer. Engineer refers to the Geotechnical/Structural consultant.
- Review and study the drawings well in advance viz before the start of construction and obtain all clarifications from the Architect/engineer.
- Demarcate the excavation setting out plan with reference co-ordinates and levels. Please note that the survey bench marks are away from the excavation in order to prevent the damage to markers and to maintain accuracy.
- Cable or utilities scanning has to be done in order to avoid the cables and pipes and underground utilities damage. It is recommended to go for trial pits so that underground utilities can be find out.
- Protect and support underground utilities.
- Mobilize the machinery for excavation.
- Start the excavation from one end and proceed to another end in layers such as one meter depth layers.
- If the excavation depth exceeds 4.0m depth, it is necessary to protect the sides of excavation by driving sheet piles or soldier piles or timber shoring with strutting. The vertical members to protect the excavation are to be driven first followed by horizontal members.
- If the excavation is deep, it is better to provide long arm excavators to reach the required level.
- Stack the soil away from the excavation edge to prevent soil collapsing to the excavation area.
- In case of soil disposal, appoint banks man to guide the machinery movement.
- Appoint signal man if the excavation is done by a mini excavator followed by soil disposal by another excavator.
- Provision for drainage is to be made with sufficient pumps and collecting.
- If there is ground water percolating to excavation, Please inform the Consultant and find out suitable preventive measures.
- All the excavation area is to be barricaded and sign boards such as “deep excavation is in progress, stay away” to be kept in all languages which can understand by workers easily.
- Sufficient flood lights have to be provided at regular intervals.
- Complete the excavation as per the levels mentioned in the Method statement.
- In case of over excavation, fill the extra depth with PCC.
- After the completion of excavation inform the architect/Engineer to visit the site for checking.
- The next step of construction can only be started after the approval of excavation by Architect/engineer

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Safety Measures / Risk Assessment Document – EXCAVATION :

- All the workers at the excavation shall wear PPE at all times such as Safety helmets, safety shoes, Safety harness or belts, Gloves etc.
- All the workers have to be briefed about the excavation and safety measures required for excavation.
- Deploy enough banks man, signal man if there are many excavators viz more than 2.
- The soil shall be stacked away from the edge of excavation to prevent collapse of soil on to workers working at bottom.
- All the excavation area shall be barricaded and should be strong enough to take the loading of human beings slanting on it.
- All the excavation areas to be provided with enough flood lights, the light intensity at any point shall not be less than 150amps.
- Sign boards to be kept at all visible places and to be protected
- Close supervision and recording by site engineer/ supervisor is required.
- Place fire extinguisher / first aid box near the access.
- Proper access with hand railing to be provided to the bottom of excavation.
- In case of dry weather, Sprinkle water to prevent dust pollution, and cover the soil stacking area with canvas.
- All the machinery has to be checked by the operators every morning before the start of work and to fill the check lists with signature.
- The speed limit of dumpers to be controlled.
- The dumpers drivers are responsible for any collapse of soil from dumper or flying of dust to atmosphere.