

Job Safety Analysis Sheet

Job:	MANUAL EXCAVATION & LAYING CABLE		ISA Ref. No.
Facility:			Permit No: Date:
PERSONAL PROTECTIVE EQUIPMENT:			
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	PRECAUTIONS	
Pre work for Manual excavation	Non-compliance of KOC -HSEMS Procedures	Get the Cold Work permit for carrying out Survey works. Conduct Toolbox Talk Ensure propose PPE Compliance	
	Presence of EOD	Ensure the area to be EOD cleared.	
	Location of Underground / Aboveground Services (such pipeline, cables, etc.)	Locate underground / aboveground services referring to the site map / drawing. Endorsements in Excavation Notification from the concerned Teams for the services in the area to be excavated. Have pre-job safety assessment and Conduct toolbox	
	In-competent equipment	The Equipment to be used for Survey and UG scanning shall be duly calibrated and made available at site with the equipment	
Excavation	Damage to underground / aboveground Services (such pipeline, cables etc)	Check for underground / aboveground services through metal detectors. Isolate services as needed through authorized permit.	
	Cave-ins of excavation	Utilize sloping, benching & shoring as needed	
	Collapse of Excavated Materials	Keep excavated material at least 1 meter away from the edge of the trench for a depth of 1.2m and shall be extended in ratio of depth. Inspection for soil condition before starting excavation work to adopt suitable soil protection.	
	Accidental fall of equipment	Keep the equipment away from the edge of the trench. Wear appropriate PPE	
	Blocking Emergency Equipment	Ensure the approach to Emergency Equipment is not blocked due to open trenches.	
	Possibility of toxic / flammable gas	Carry out gas test before excavating in hazardous area.	
Loading and Unloading of cable drums on truck.	a) Failure of slings.	1) Periodic examination of the slings. 2) Use slings of correct capacity. 3)Keep persons at a distance while the material is being	

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