GENERAL RISK ASSESSMENT						
Activity:	**Structural Investigation (Sampling & Testing)**		ASSESSED BY	REVIEW AND NOTED BY:	NOTED BY:	EEL-RA-02
Client :	-	Signature				
Contractor :	-	Designation:	**Sr.Quality Officer**	**Laboratory Manager**	**Laboratory Supervisor**	
Consultant :	-	Name	Sarath Nair	Vilas R Nair	Sajesh Kumar	**Next Review: SEP- 2027**
Project:	-					
Location:	-	Date	24-Sep-26	24-Sep-26	24-Sep-26	

POTENTIAL HAZARDS TO BE CONSIDERED (AS APPLICABLE)***				
Covid -19 Infection	Explosion from stored Fuel		Heavy Earth Moving machinery / vehicle flying /falling objects	Fall from Height, Falling materials / accessories Excessive noise over 85 dB Poor Working conditions Slipping / Tripping hazards Poor Housekeeping
Heat Exposure; Heat Stress and Heat Exhaustion	Radiation Exposure-ionizing & Non ionizing		Penetration	
Adverse weather-sand storm, winds, heavy rain	Electrical Hazards		Chemical Exposure-vapors,	
Environmental and Reptiles risk	Demolition Hazards		Allergens, Dust	
Underground connections-DEWA, gas and tel. line ect	Poor Working Platforms		Moving, Flying and rotating parts.	

WORK ACTIVITY	HAZARD DESCRIPTION	IDENTIFIED AT RISK	INITIAL RISK			CONTROL MEASURES	RISIDUAL RISK		
		WORKERS, PROPERTY, ENV	L	S	R		L	S	R
Covid-19 Infection	Spread of Covid-19 among workforce and others.	• Workforce / Public	4	3	12	Ensure all Safe working Procedures(SWP) for the prevention of Covid-19 spread are followed by all workforce at site. Face masks must be worn. Social distancing shall be maintaned and followed at side. Any symptoms of covid-19 shall be reported to supervisor/HSE department immediately. Covid-19 awareness signages shall be posted. Isolation and Quarantine protocols as per local Health Authority SHA / DHA shall be strictly followed by all personnels. Training shall be given to the workers on Covid-19 precautions & personnel hygiene. Ensure adequate welfare facilities are available.	2	2	4

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WORK ACTIVITY	HAZARD DESCRIPTION	IDENTIFIED AT RISK	INITIAL RISK			CONTROL MEASURES	RISIDUAL RISK		
		WORKERS, PROPERTY, ENV	L	S	R		L	S	R
Mobilization / De-Mobilization of equipment, Machine, Accessories and Materials	• Load fall due to in-adequate strapping and lashing	• Road user, Pedestrians and Workforce	3	4	12	• Visual and Actual inspection of Lashing straps and properly securing the load.• All employees should undergo the First Day Site Safety Induction.• Proper access/ egress, • Good housekeeping practices should be maintained at all times, • Do Visual and actual inspections of Lashing straps and properly securing the load • Testing team to be made aware of vehicle routes and operations of the plants close to them.	1	4	4
	• Toppling of pick-up vehicle due to load imbalance	• Road user, Pedestrians and Workforce	3	4	12	• Follow the designated route with permissible speed • Pre-plan route • All vehicles and mobile plants to be equipped with reverse alarms.	1	4	4
	• Unmaintained transport Vehicle	• Workforce/Environment/Public	3	3	9	• All accessories of vehicle must be provided and maintain,tyres,brake,brake lights,indicators,etc.Back horn to be provided.• Valid Vehicle document , Vehicle registration card • Daily vehicle checks to be undertaken by the operator/ drivers. Defects to be reported and rectified • Continuous monitoring	1	3	3
	•Traffic	• Road user, Pedestrians and Workforce	3	4	12	• All drivers/operators must hold a valid U.A.E. driving license, • Equipment operators must be a 3rd Party Certificate Holder, • Flagman will be provided to any Heavy Plant working on site. • Working areas will be barricaded with adequate safety warning sign boards. • All vehicle/equipment should have a Warn-ing Amber Lights and reverse alarm. Ensure Pre-Task Briefing is conducted before commencing the work.	1	4	4
Un-loading the Materials and accessories	• Materials falling down due the poor handling	• Workforce/Property	3	3	9	• Ensure usage of appropriate & Certified Lifting gears. Provide tab lines to avoid undue swinging of load. Ensure Pre-Task Briefing is conducted before commencing the work.Ensure proper PPE is being worn.	1	3	3
	• Musculoskeletal Hazard due to improper manual handling	• Workforce	3	4	12	• Bring the load close to the body whenever possible. Bend knees properly when lifting. Manual training to be provided. Toolbox meeting carried out. • Wear required and appropriate PPE's Such as: Safety Helmet, Goggles, HVV, Safety Shoes (warning signs Men At Work is required. No works shall start w/o proper provision and appropriate barricading of the area or location.	1	4	4
Set up of equipmet in the Location area.	• Wrong Information or Data with regards to equipment • Damage of equipments	• Workforce and Property	3	4	12	• Technician Must have the Necessary Knowledge, Ability, Training And Experience. • Copy of Method statement shall be in possession of site technician during test.	1	4	4
	• Serious Physical Ailment	• Workforce and Property	3	3	9	• It can danger themselves and the other workers • Damage of equipments and property	1	3	3
	• Not following task procedures/ Test Standard or Method of statement.	• Workforce and Property	3	2	6	• May Result of Testing record failure and wrong information	1	2	2

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WORK ACTIVITY	HAZARD DESCRIPTION	IDENTIFIED AT RISK	INITIAL RISK			CONTROL MEASURES	RISIDUAL RISK		
		WORKERS, PROPERTY, ENV	L	S	R		L	S	R
	• Working shortcuts	• Workforce and Property	3	3	9	• Safe system of work shall be implemented ; Wear proper and sufficient PPE.	1	3	3
	• Horseplay in the site	• Road user, Pedestrians and Workforce	3	4	12	• Horseplay must not be permitted in the site by the supervisor ; P.P.E must be worn.	1	4	4
Set up of equipment & Preparation for use	• Falling from heights	• Workforce / Property /Public	3	3	9	• Use standard ladder , there must be 3 – 1 meter overlapped of ladder in the landing area . Ascend or descend only on designated stairs on scaffolding . ; Do not go near edge of excavation . ; request for barrication when necessary . ; Maintain 3 Point contact in ladders.	1	3	3
	• Trip Prone area particularly in between steel lay out in test areas. (while walking)	• Workforce / Property /Public	6	2	12	• Be careful when walking in to the steel lay - out ; Keep focus on the walkway; Use appropriate PPE.	1	2	2
	• Poor housekeeping (scattered tools) around the test location site,	• Workforce / Environment/Public	3	3	9	• Maintain good housekeeping before and after work and must be initiated by the site Technicians and helpers. Effect of good housekeeping principles to be discussed in toolbox meeting.	1	3	3
	• Not wearing proper Personal Protective Equipment	• Workforce / Environment/Public	3	3	9	• Wearing of PPE shall be mandatory when working in the job site.	1	3	3
Works Activity under progress	• Not following task procedures/ Test Standard or Method of statement.	• Workforce / Environment/Public	3	4	12	• Read and follow the proper instruction at all times ; Do not exceed to the standard procedures; PPE must be worn.	1	4	4
	• Adverse weather sandstorm	• Workforce	2	3	6	• Report to supervisor in event of any sandstorm. Abort drilling when condition get worst. Goggles and face covers, dust mask must be worn. Advice weather report to obtained and disseminated to concerned persons.	1	3	3
	• Poor housekeeping (scattered tools) around the drill site,	• Workforce/Public	2	2	4	• Maintain good housekeeping before and after work and must be initiated by Technician. Effect of good housekeeping principles to be discussed in toolbox meeting.	1	2	2
	• Snakes, Scorpions and Insects	• Workforce	3	3	9	• Frequently check protective shoes, clothing, avoid possible animal habitat. Contact number of nearest hospital treating snake bites should be know. Snake bite F.A. training required. Avoid sitting in ground or sand.	1	3	3
	• Diesel engine creates excessive noise over 85 DB,	• Workforce / Public	3	3	9	• Wear ear plugs when operating machine. Engine maintenance should be done. Rules to wear ear protection if you cannot hear within 1 meter. of conversation.:	1	3	3
	• Exposure to engine exhaust fumes / Hot surface	• Workforce / Public	3	4	12	• Waer Proper and Appropriate PPE's During operation; avoid contact with the equipment operaring at the site : Wear suitable Respiratory mask if Necessary to minimized inhalation of engine fumes	1	4	4

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WORK ACTIVITY	HAZARD DESCRIPTION	IDENTIFIED AT RISK		INITIAL RISK			CONTROL MEASURES	RISIDUAL RISK		
		WORKERS, PROPERTY, ENV		L	S	R		L	S	R
	• Long Exposure to Ultra Violet Light	• Workforce	3	3	9		• Wear suitable clothes, coverall, long sleeves. Flexible working hours, provide electrolyte replacement drink. Avoid carbonated drinks. Take rest intervals in shaded area, provide shelter or tents. Toolbox meeting supervision of operatives for sign of fatigue. If signs of stroke is evident, move to a cool place. Elevate feet loosen clothing to promote circulation of air, Fan the heat casualty. Call ambulance, perform first aid.	1	3	3
	• Mechanical Hazards- unmaintained equipment	• Workforce / Environment	3	4	12		• Perform preventive maintenance of equipment. Check equipments, prior to operationr.	1	4	4

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WORK ACTIVITY	HAZARD DESCRIPTION	IDENTIFIED AT RISK	INITIAL RISK			CONTROL MEASURES	RESIDUAL RISK		
		WORKERS/ ENVIRO PROPERTY	L	S	R		L	S	R
Works Activity Under Progress	• Slip, trip and fall while doing installation of equipment for testing	• Workforce / Property	2	2	4	Keep clean the area and stay on the safe side while doing the task and maintain the area dry as well. Wear appropriate PPE at all times. Supervision,information,instruction is a must.	1	2	2
	• fumes ,gases from electrical equipments in the area- Generators	• Workforce	2	2	4	• Report all the possible hazard to the site supervisor ; appropriate PPE must be worn	1	2	2
	• Vibration to nearby area during work activity	• Workforce	2	2	4	• Risk is negligibly less as vibration during operation is very less.	1	2	2
	• Pinch Points	• Workforce	3	3	9	• Keep hand fingers and arms away from moving parts of the machine around the testing area. Wear appropriate PPE. Secure all parts from rolling from platform. Guards to be provided to moving where possible.	1	3	3
	• Night Shift Activities	• Workforce / Public/ Property	3	3	9	• All night activities shall be supervised by a competent supervisor • Site lighting must be sufficient & well planned. • Prior to start the night work the area should be inspected for any imminent danger. • Qualified electrician should be assigned for maintaining the electrical requirement at site.• Emergency light shall be provided in high risk areas as necessary. • Torchlight shall be provided to the supervisory staff as necessary. • Sufficient light should be provided to the work site, access ways, store yard, rest area and other areas as necessary;• First aider and first aid facility should be provided; • Toolbox talk should be conducted to all night duty crews; • Accounting of personnel at regular intervals; • Night work notification to be obtained from all concerned parties.	1	3	3
	• Lack of sleep	• Workforce	2	2	4	• Assign fresh people for night shift. • Provides strict super-vision. • Do not allow people to sleep in unsafe ar-eas eg. Scaffolding or under equipment's etc	1	2	2
	• When you use a electrical resistivity equipment, you could be injured or damage equipment	• Workforce / Property	2	3	6	Use electrical resistivity equipment on high-resistance measurements only (such as insulation measurements or to check two separate conductors on a cable).• Never touch the test leads while the handle is being cranked. • Reenergize and discharge the circuit completely before connecting a electrical resistivity equipment• Disconnect the item being checked from other circuitry, if possible, before using a electrical resistivity equipment	1	2	2
	• Electrocution as a result from contact with live electrical powers.	• Workforce	2	3	6	The area must be free from water or oil leak to avoid electrocution and slips. Barricade the workplace area and maintain housekeeping at site. ;Electrical and water connection must be inspect before activity started.. Use protective gloves and suitable site PPE.	1	3	3

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WORK ACTIVITY	HAZARD DESCRIPTION	IDENTIFIED AT RISK	INITIAL RISK			CONTROL MEASURES	RESIDUAL RISK		
		WORKERS/ ENVIRO PROPERTY	L	S	R		L	S	R
	• Volatile organic Contaminants	• Workforce	3	4	12	• Pre-survey the site with an HNu 101 or OVA 128 prior to collecting soil samples. If monitoring results indicate organic constituents, sampling activities may be conducted in Level C protection. At a minimum, skin protection will be afforded by disposable protective clothing.	1	4	4
	• Musculoskeletal Hazard due to improper manual handling	• Workforce	3	3	9	• Bring the load close to the body whenever possible. Bend knees properly when lifting. Manual training to be provided. Toolbox meeting carried out. Make sure driller has been trained and competent while doing the SPT to avoid crush and cut of body parts. Ensure SPT was internally calibrated and wear appropriate PPE all the time.	1	3	3

WORK ACTIVITY	HAZARD DESCRIPTION	IDENTIFIED AT RISK	INITIAL RISK			CONTROL MEASURES	RESIDUAL RISK		
		WORKERS/ ENVIRO PROPERTY	L	S	R		L	S	R
Works Activity Under Progress	• Live Site Work Ares	• Workforce / Environment/Public	2	3	6	Coordinate with authorized person for additional workers or contractor to limit their access towards working areas. ; Proper barrication and safety signage must be install around the site working areas; Un-authorized person should not allowed to go near or over the working areas; Use appropriate and suitable PPE's during work activity.	1	3	3
	• Mechanical Hazards- unmaintained equipment	• Workforce / Environment/Public	2	3	6	• Perform preventive maintenance of equipment. Check equipments, prior to machine operation. Replace worn out parts specially damage wire rope. Third party certificate of Rig Machine required, • Appropriate Fire Extinguisher Must be available at all times	1	2	2
	• Vibration	• Workforce	3	4	12	• Maximum 2 hours per day in handling vibrating equipments. Toolbox talk topic.	1	3	3
	• Musculoskeletal Hazard due to improper manual handling	• Workforce	3	3	9	• Bring the load close to the body whenever possible. Bend knees properly when lifting. Manual training to be provided. Toolbox meeting carried out.	1	3	3
General Safety Requirements:	Weather Exposure / Minimum PPE Requirements, -Dehydration / Minor Injuries-employees; Workforce welfare facilities; -Emergency Situations / Rescue Plan;- Product/Chemical Safety -Product/Chemical Safety(if in Use) -Temporary Lighting – Illumination(Improper lighted areas incase of night work)	All Workforce / Public	3	3	9	Employees will dress for anticipated weather conditions; Potable water will be onsite for use, Hard hats, hearing protection, safety glasses, safety-toed boots, class 2 safety vest, gloves, long pants, and short sleeve shirt. Slip resistant work boots. Provision of welfare facilities, Cool potable water shall be made available to employees. First Aid kits will be made available on jobsite and at least FA / CPR trained personnel on the jobsite for assistance. where applicaeable SDS's will be located onsite for review and emergency. Site personnel will be trained in Hazard Communications; Site personnel will be trained and advice in proper actions for anticipated emergency situations; Work areas to be lit to 5FC in case of night work.	1	2	2

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LIKELIHOOD

1- Very Unlikely- There's a 1 in a million chance of the hazardous event happening
2- Unlikely- There's a 1 in 100,000 chance of the hazardous event happening.
3- Fairly likely- there's 1 in 10,000 chance of the hazardous event happening.
4- Likely- there's 1 in 1000 chance of the hazardous event happening
5.- Very likely -there's a 1 in 100 chance of the hazardous event happening

CONSEQUENCE

1- Insignificant -No Injury
2- Minor-Minor injuries needing First Aid
3- Moderate- Up to three days Absent
4- Major- More than 3 days absent
5- Catastrophic- death

SAFE TO PROCEED IF ALL ABOVE ADHERED.

I Affix my signature, signifying that I have read and fully understand this document.

Name	Designation	Signature	Date	Remarks

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