CLIENT	CONSULTANT	CONTRACTOR	SUB-CONTRACTOR

TASK RISK ASSESSMENT WORKSHEET

CONTRACT NO	REF	DATE	REV
—	RA-2026-Gg2GWoUy	17.09.2026	A

PROJECT —

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ACTIVITY **Determination of In-place density and unit weight of soil**

ASSESSORS	— PROJECT MANAGER *signature*	— HSE ENGINEER *signature*	— PROJECT MANAGER *signature*	— CIVIL ENGINEER *signature*	— HSE ENGINEER *signature*

SN	Activity	Hazard / Aspect	Consequence	Groups Exposed	Existing Controls	Initial Risk P × S = R	Additional Controls	Residual Risk P × S = R
1	**Mobilization of personnel, vehicles and Delivery of materials to job site**	• Physical hazards while handling materials,2. • Un controlled Vehicle movement,3. • Driver/ Operator fatigue4. • Non- Competent Driver5. • Poor vehicle transport condition6. • Unskilled labor, Vehicle accident,7. • Oil spillage,8. • Vehicle collision	• Personal Injury,Fatality Property damage,Explosion/Fire.	• Workersinvolved inthe jobandnearbypersonnel / technician	• TP NOC and Permits shall be obtained from the concerned authority and follow their safety procedure. • All the workers, staffs and management must undergo with the Project HSE induction prior entry to the site. • The Competent Person shall obtain work permit along approved MS&RA, Job specific checklist. • Valid EID, Medical Insurance shall be attained. • Drivers shall have valid UAE Driving License • Vehicle shall have a valid vehicle license (mulkiya)Conduct awareness training, emergency procedure and Specific Toolbox Talk to all personnel. • Appropriate supervision at all times. • Vehicle/Equipment shall be checked on daily basis and shall be recorded. • Store equipment & tools at designated area only • Ensure to wear appropriate PPE.	**P 3 × S 2** **6**	• Ensure the flagman/banks man is available for vehicle movement control. • Ensure equipment having ROPS (roll over protection system), that operators are safeguarded against roll overs Placement of welfare amenities as per ADOSH SF CoP 8.0 – General Workplace Amenities. • Heat stress management program shall be implemented as per ADOSH SF CoP 11.0 Need to comply with ADOSH SF – MS element 5.0 – Training, Awareness and Competency. • TAQA ESR No.01- PTW	**P 1 × S 2** **2**
2	**Access to the Excavated Pit to perform the test using Cone Machine with Thermal Needle Probe**	• Slip, Trip and Fall Hazard due to poor or improper access/egress2. • Operatives may fall down in to the trench or pit	• Personal Minor or Major Injury.	• Technician • Helpers	• TP NOC and Permits shall be obtained from the relevant authority and follow their safety procedure. • The Competent Person shall obtain Work permit along approved MS&RA; • Tool box talk shall be conducted to all work force on work and related hazards • Only competent and approved persons shall conduct the test using Cone machine & thermal needles Verify valid calibration certificate Cone Machine • Ensure proper access and egress is provide by providing proper ramp/slope or placing by ladder. • Not allowed to keep any material at working area or edge of the excavated area • Ensure no body take shortcuts between the trench and barrication. • Operatives wear PPE, s like hand gloves, safety shoes, googles, Face Mask/dust mask, ear plug, safety helmet.	**P 2 × S 2** **4**	• Need to comply with ADOSH SF – CoP 29.0 – Excavation. • Work area shall be free from obstacles and maintained clean & tidy. • Excavation inspection shall be carried out prior operatives are getting in. • Method Statement and Risk Assessment to be explained to the crew in their own easily understood language. • The trench shall be adequately barricaded along with multi language warning signs and flashing lights • Main 3-point contact while using the ladder. • Face the ladder while climbing up & down Only one person at a time on ladder • Ensure ladder is inspected and colour coded before use.	**P 1 × S 2** **2**

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3	**Working with hand tools**	• Use wrong tools2.damaged tools 3. • Homemade tools	• Personnel injury • Property Damage	• Technician and helpers	• Damaged tools should immediately repair or replaced. • Always use good quality hand tools that should be designed to fit the hand and the task. • All hand tools shall be inspected by competent person and put color code • Tools should be properly stored in boxes, racks, holders or pocket belts. • Cutting edges should be sheathed. • Ensure no one is present at the line of fire. • Ensure all are using PPE's while using hand tools. • Helmet, goggles, hand gloves, safety shoes, mask, coverall with reflective/ reflective jacket.	**P 2 × S 2** **4**	• Not allowed to use any kind of homemade tools • Mushroom headed hand tools shall be removed from service • Damaged and loose handle hammers shall not be used. • Monthly colour coding system shall be implemented for hand and power tools.	**P 1 × S 2** **2**
4	**Manual Handling**	• Lack of awareness of safe manual lifting2. • Manual Handling of materials3. • Slipping/Tripping4. • Sharp edges of material5. • Pinch point6. • Awkward posture7. • Heavy load and bulky	• Affects the spinal cord Personnel injury	• Workers,staffconsultant, client, visitors.	• Toolbox talk and awareness training to be conducted. • Wear necessary PPE, s safety helmet, safety goggles, coverall and safety vest. • Use safe method of lifting (back straight, be close to the load and hold with full grip). • Team handling while handling the pipes. • Keep routes clear and clean. • Use containers for loose material (if required).assess the load and do not lift the load alone take assistance. • When more than one person involved use team leader to coordinate.	**P 2 × S 2** **4**	• Training shall be provided to all concerned staff on "Manual Handling," before the start of the activity. • Watch where you are walking. • Do not run or rush. • Ensure pits are covered. • Check and make sure. • The area is clear. • And need good view to bottom during. • Manual handling. • Need to comply with ADOSH SF – CoP 14.0 – Manual Handling and ErgonomicsIf material handling is doing manually then Bend the knees as much as possible to lift the load. • Lift gradually using leg and stomach muscles.	**P 1 × S 2** **2**

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5	**Traffic control (Working near to existing road)**	• Live traffic, 2. speeding of vehicles, public3. • Vehicle movement4. • Road Traffic accident	• Vehicle accidents, injury, fatality, property damage	• workersinvolved inthe job andnearbypersonnelincludingstaff, clientsupervisor,visitorworkersinvolved inthe job	• Clearance must be obtained from appropriate authorities in writing witnessed by the engineers. • Proper planning and supervision are required. • Warning signs, safety cones, safety barriers etc. should be provided. • Detailed method statement should be provided at the time of execution. • Proper warning signs for reduce speed to be used • Workers should have to wear reflective jackets. • Flagman should be employed for controlling traffic, while monitoring the road levels / survey. • Toolbox talk to be conducted prior to the start of work. • Ensure ITC / Municipality permit shall be valid and copy to available at site prior to the start of work	**P 3 × S 2** **6**	• Reduce the speed at working area, provide hard barricading, place warning signs, arrange flagman, warning lights on sign boards and barriers, using high visibility jacket and competent supervision. • Training on working near live traffic, designated drop-off and pickup areas, prohibit crossing roads in non-designated areas. • ADOSH – SF Code of Practice (Cop) 44.0: Traffic Management and Logistics to be followed. • Banksman /Flagman shall have a provision of Beckon lights during the nighttime /under dark & cloudy conditions.	**P 1 × S 2** **2**

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6	**Working In the extreme heat/ Humidity**	• Extreme Temperature and Humidity2. • Heat cramp and rashes3. • Heat syncope4. • Heat Exhaustion5. • Heat stroke	• headache, vomit &dizziness to victim acute spasm of voluntary muscles (ex. • Abdomen extremities)mild red rash in the body.	• workersinvolved inthe job andnearbypersonnelincludingstaff, clientsupervisor,visitorworkersinvolved inthe job	• Toolbox talk on heat stress to be provided. • Provide cool drinking water and electrolyte solutions. • Heat Stress Awareness Campaign shall be conducted to increase the awareness of all regarding Heat Stress. • Arrange rest areas away from workstation to cool off. • Ensure that there is air circulation in operator's cabin Provide sufficient breaks and job rotation • Supply of adequate cool water Regularly. • Provision of adequate supervision. • Provide adequate welfare facilities.	**P 3 × S 2** **6**	• First Aid /Medical Emergency: Ensure the number of First Aid Boxes are appropriate as per the strength of the team at the site. • ADVET trained and approved First Aider available at the site during throughout the activity. • Comply ADOSH SF CoP 11.0- Safety in the Heat • Adjust work schedule for work and rest periods during hot days • Train workers to recognize signs and symptoms of heat stress disorder and advised to take water at frequent intervals. • Work shall be stopped in bad weather conditions such as high winds /sandstorm and heavy rains and downpour etc.	**P 1 × S 2** **2**
7	**Housekeeping Activity**	• Obstructions2. • Slip, trip and fall3. • Fire hazards	• Personal injury • Property damage	• Workers,staffconsultant, client, visitors.	• Site housekeeping, maintain daily removal of all waste form the site. • Housekeeping should be conducted before work start and end of the shift. • Properly arrange the materials • Work area should be kept clean without obstruction all day. • Secure all temporary signage boards and materials.	**P 2 × S 2** **4**	• Material shall be stacked as per standard height and width. • Overload and unsecure storage of material should be avoided. • Follow waste management plan- Prevention, Reduce, Reuse, Recycle and recovery. • Follow Collection, Segregation, Storage, Transportation and Dispose	**P 1 × S 2** **2**

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8	**Adverse weather condition (sandstorm, high winds, rain) Human Factor/ errors/failure**	• Reduced Visibility2. • Slippery Surfaces3. • Wet conditions and Unstable ground condition. 1.stress2.error, mistakes, safety violations3.unsafe acts, lapses,3.poor attitude towards work4.lack of skills 5.wrong/ damage tools	• Personal injury • Property damage	• workersinvolved inthe job andnearbypersonnelincludingstaff, clientsupervisorvisitors,workersinvolved in the job Workers, staff	• Vehicle speed shall be reduced. • Use high visibility clothing. • Regular inspections at work area. • Equipment / materials secured. • Stop work during adverse weather condition. • Provide training regarding adverse weather conditions Emergency Evacuation procedure to be followed. • Provision of First aider and standby vehicles. • Selection of competent and skilled personal Only trained and experienced personnels shall be deployed for the job Sufficient time shall be given to complete the task to reduce pressure/stress Do not allow young or incompetent workers and supervisors for sensitive works • Training shall be given on work/site management and behaviour • Organisational learnings, sharing the incident alerts	**P 3 × S 2** **6**	• Safe evacuation from working location. • If visibility becomes poor driver to pull over in a safe place until it improves. • Drivers to maintain safe distance between vehicles. • Work shall be carried out considering the weather severity level. • Weather alerts shall be monitored. • Wind screen wipers shall be in good condition. • Tool box talk shall be given on the unsafe acts/conditions. • Develop work patterns and systems to minimize fatigue and stress Provide the correct tools for the job • Proper investigation of incidents/ accidents to identify where human error occur • Ensure continuous competent supervision Ensure work is done only as per the approved drawings, permits, MS&RA and work procedures	**P 1 × S 2** **2**

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LIKELIHOOD / FREQUENCY

Descriptor	Likely Frequency	Probability
Frequent	Occurs frequently	5
Often	Occurs several times per year	4
Likely	Has occurred more than once	3
Possible	Has occurred	2
Rare	Never occurred	1

RISK MATRIX — PROBABILITY × CONSEQUENCE

Probability	Consequence				
	Insignificant (1)	Minor (2)	Moderate (3)	Major (4)	Catastrophic (5)
Rare (1)	1	2	3	4	5
Possible (2)	2	4	6	8	10
Likely (3)	3	6	9	12	15
Often (4)	4	8	12	16	20
Frequent / Almost Certain (5)	5	10	15	20	25

15 – 25	Extreme Risk	Activity or industry should not proceed in current form.
8 – 12	High Risk	Activity or industry should be modified to include remedial planning and action and be subject to detailed EHS assessment.
4 – 6	Moderate Risk	Activity or industry can operate subject to management and/or modification.
1 – 3	Low Risk	No action required, unless escalation of risk is possible.