CLIENT	CONSULTANT	CONTRACTOR	SUB-CONTRACTOR

TASK RISK ASSESSMENT WORKSHEET

CONTRACT NO	REF	DATE	REV
—	RA-2026-zYPPJUOF	03.10.2026	A

PROJECT —

CLIENT	CONSULTANT	MAIN CONTRACTOR	SUBCONTRACTOR
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ACTIVITY **Annx-1_TRA_Backfilling**

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 equipment's at site & Delivery of materials to job site**	• Manual handling hazards such as awkward posture, • Repetitive task and Forceful exertion3. • Un controlled Vehicle movement, • Driver/ Operator fatigue5. • Non- Competent operator and Driver6. • Poor vehicle transport condition • Overloading, falling of load/materials, • Unskilled labor, • Vehicle accident, • Oil spillage	• Vehicle collision, Equipment Toppled over, Personal Injury, Fatality Property damage, Explosion/ Fire.	• Workers involved in the joband nearbypersonnel / public	• 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 Cold Work permit along approved WMS&RA, Job specific checklist. • Valid EID, Medical Insurance shall be attained. • Drivers/ Operator shall have valid UAE Driving License/ Third Party competency certification • Vehicle/Equipment's shall have valid registration / Third Party fitness inspection certificate. • Conduct awareness training, emergency procedure and Specific Toolbox Talk to all personnel. • Appropriate supervision at all times. • No driving / operation in poor visibility due to fog and dust • Equipment maintenance shall not be carried out in site. • Vehicle/Equipment shall be checked on daily basis and shall be recorded. • All material shall be stacked properly and secured before transportation from the store • Provision of standby vehicles. • Store equipment & tools at designated area only • Ensure the banks man is visible to the operator all the time during operation.	**P 2 × S 3** **6**	• The reverse alarm shall be as per the OEM setting i.e., it is to be operated automatically while applying the reverse gear. • Reverse light and brake lights shall be as per OEM and shall be operational while applying reverse gear and brakes respectively. • 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 11.0Need to comply with ADOSH SF – MS element 5.0 – Training, Awareness and Competency. • Need to comply with ADOSH SF – CoP 34.0 – ADOSH SF - Safe Use of Lifting Equipment and Lifting Accessories • Need to comply with ADOSH SF – CoP 36.0 – Plant and Equipment. • Need to comply with ADOSH Need to comply with ADOSH SF – CoP 25.0 – Driver Fatigue Prevention	**P 1 × S 2** **2**

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SN	Activity	Hazard / Aspect	Consequence	Groups Exposed	Existing Controls	Initial Risk P × S = R	Additional Controls	Residual Risk P × S = R
2	**Backfilling,**	• Slip/Trip and falls2. • Rotating Parts3. • Noise4. • Falling of personal,materials, tools and equipment's, • Collapse of trench excavation - cave ins.6. uneven ground	• Personnel injury, damage to underground facilities, materials & equipment's	• Workersinvolved inthe job andnearbypersonnelincludingstaff, clientsupervisor,visitor	• The Competent Person shall obtain Work permit along approved WMS& RA and Job specific checklist. • Placement of welfare amenities • Conduct awareness training, emergency procedure training and Specific Toolbox Talk to all personnel prior to commence the work activity. • All means of access/egress shall be kept free from all obstructions • Where any vehicle is used for tipping materials into any excavation or over the edge of earth work used to prevent the vehicles overturning the edge such as wheel stopper. • Vehicle/Equipment's shall have valid registration / Third Party fitness inspection certificate. • Drivers/ Operator shall have valid UAE Driving License/ Third Party competency certification Ensure banksman is maintained a safe distance between the machineries. • Workers not allowed to stay inside the excavation while doing back filling with equipment. • Only trained and competent allowed to use the plate compactor/ Roller. • Machine guards shall be in place. • Machine shall be pre-inspected and color coded prior commencing the task. • Work area is barricade to prevent the unauthorized entry placing the suitable signages.. • Appropriate supervision at all times. • Ensure operatives shall be wear suitable PPE, based on the task. • Hand Gloves, Safety Shoes, Safety Goggles, Safety Helmet, Face/dust mask , Ear plug/Ear Muff	**P 3 × S 2** **6**	• Job rotation, Sufficient rest timing and reasonable work demands to workers • Arrange proper means of communication system. • Barriers / signboards to be provided. • Flashlights shall be provided for night warnings. • Need to comply with ADOSH SF - CoP 39.0 –Overhead and underground Services. • Need to comply with ADOSH SF – CoP 29.0 – Excavation	**P 1 × S 2** **2**

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SN	Activity	Hazard / Aspect	Consequence	Groups Exposed	Existing Controls	Initial Risk P × S = R	Additional Controls	Residual Risk P × S = R
3	**Use of plate/ roller compactor for compaction**	• Entanglement • Sound and vibration • Slip/Trip/Fall4. • Fire Hazard5. • Soil contamination- oil spills.			• The Competent Person shall obtain Work permit along approved WMS& RA and Job specific checklist. • Conduct Specific Toolbox Talk to all personnel prior to commence the work activity. • All means of access/egress shall be kept free from all obstruction • Ensure trained and experienced person is appointed for the task. • Ensure plat/roller compactors are inspected and color coded and having valid 3rd party certificate. • Ensure all rotating parts are guarded. • Ensure operatives job rotation is in place. • Proper housekeeping shall be maintained all the time. • Machines shall be shutoff before fuel filling and use dip tray to contain any spills. • Ensure operatives shall be wearing suitable PPE, based on the task. • Hand Gloves, Safety Shoes, Safety Goggles, Safety Helmet, Face/dust mask , Ear plug/Ear Muff	**P 2 × S 3** **6**	• Man, Machine Interface training for all machine operators. • In house training shall be given to persons handling/ operating compactors. • Ensure fire extinguisher shall available near the working area. • Need to comply with ADOSH SF – CoP 3.0 – occupational noise • Need to comply with ADOSH SF – CoP 3.1 – vibration Need to comply with ADOSH SF – CoP 36.0 – Plant and Equipment.	**P 1 × S 2** **2**

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SN	Activity	Hazard / Aspect	Consequence	Groups Exposed	Existing Controls	Initial Risk P × S = R	Additional Controls	Residual Risk P × S = R
4	**Use/ Movement of plant & equipment (Excavator, Hiab, Shovel)**	• Collision of Plants and equipment's • Persons hit/crush by moving equipment. • Vehicle falls unto excavation	• Personal Injury • Property damage	• Workers,staffconsultant, client, visitors.	• Only Competent 3rd party certified operator to do the job Equipment's should have valid 3rd party certified Banks man should be deployed for the movement of Plant & equipment Vehicle/Equipment's shall have valid registration / Third Party fitness inspection certificate. • Drivers/ Operator shall have valid UAE Driving License/ Third Party competency certification Where any vehicle is used for tipping materials into any excavation or over the edge of earth work used to prevent the vehicles overturning the edge such as wheel stopper Flashing beacon & reverse alarm should be functional • Vehicle Lights, windows and mirrors should be cleaned regularly to ensure a clear view • Ensure operatives shall be wear suitable PPE, s based on the task. • Hand Gloves, Safety Shoes, Safety Goggles, Safety Helmet, Face/dust mask, Ear plug/Earmuff	**P 2 × S 3** **6**	• Plant & pedestrian access to site be kept separated. • Need to comply with ADOSH SF – CoP 36.0 – plant and equipment • Man, Machine Interface training for all machine operators. • Defensive driving for all heavy and light vehicle drivers. • Site speed limit to be implemented and strictly adhered. • Disciplinary action for all violators • Swinging of jibs and excavator arms shall be conducted without encroaching into the lateral Clearance area Need to comply with ADOSH SF – CoP 33.1 – Traffic incident and site management. • Comply with TAQA 12 essential rules – RULE No. 3 – Excavation and Ground Disturbance • Comply ADOSH SF CoP 29.0- Excavation	**P 1 × S 2** **2**

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SN	Activity	Hazard / Aspect	Consequence	Groups Exposed	Existing Controls	Initial Risk P × S = R	Additional Controls	Residual Risk P × S = R
5	**Working with hand tools**	• Use of wrong tool for work2. • Failure to maintain and improper storage3. • Use of damaged tools 4. using homemade/ makeshift items5. • Pinch Points	• Personnel injury, property damage	• Workers, staff consultant, client, visitors.	• For work on or near electrical apparatus only properly insulated tools should be used. • Tools should be properly stored in boxes, racks, holders or pocket belts. • Cutting edges should be sheathed. • Damaged tools should immediately repair or replaced. • Always use good quality hand tools that should be designed to fit the hand and the task. • No handmade tools shall be used. • Color coding /inspection system to be followed for all hand /power tools. • All hand tools should be secured properly after the work. • Adequate supervision shall be ensured. • Ensure use of PPE's	**P 3 × S 2** **6**	• Always use good quality hand tools that should be designed to fit the hand and the task. • Select correct weight, size and tool for the job. • Comply ADOSH SF CoP 2.0- Personnel Protective Equipment	**P 1 × S 2** **2**
6	**Manual Handling**	• Lackofawareness of safe manual liftingof materials • Slipping/Trip ping3. • Sharp edges of material4. • Pinch point • Awkward posture6. • Heavy load and bulky	• Personnel injury • Strains, sprains, musculoskeletal injuries from lifting, carrying, or moving equipment	• Workers	• Toolbox talk and awareness training to be conducted. • Use safe method of lifting (back straight, be close to the load and hold with full grip). • Bend the knees as much as possible to lift the load. • Lift gradually using leg and stomach muscles. • Stand as close to the load lifted • During manual handling of materials, assess the load. • Take the assistance if weight is more than the permissible limit • When more than one person involved use team leader to coordinate. • 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. • Do not lift the load beyond personnel capacity. • Wear necessary PPE, s safety helmet, safety goggles, coverall and safety vest.	**P 2 × S 2** **4**	• Training shall be provided to all concerned staff on "Manual Handling," before the start of the activity. • Ensure all workers are wearing mandatory PPE's 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 Ergonomics • Needs to comply ADOSH SF CoP No. 17.0- Safety signage and signals.	**P 1 × S 2** **2**

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SN	Activity	Hazard / Aspect	Consequence	Groups Exposed	Existing Controls	Initial Risk P × S = R	Additional Controls	Residual Risk P × S = R
7	**Working In the extreme heat/ Humidity**	• Extreme Temperature and Humidity2. • Heat cramp and rashes3. • Heat syncope4. • Heat Exhaustion5. • Heat stroke6. over heat of equipment and machinery • Dehydration and fatigue	• 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. • Avoid working under direct sun (if possible) or use umbrella. • 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 • Give sufficient breaks i.e. follow summer timing stated by labor ministry. • Supply of adequate cool water Regularly. • Provision of adequate supervision • Ensure equipment is well maintained and turn off when not in use. • Regular monitoring of TWLIncrease break time following ADPHC guideline and TWL monitoring.	**P 2 × S 3** **6**	• Need to comply with 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 • Rest room provided shall be air conditioned • 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. • Work shall be stopped in bad weather conditions such as high winds /sandstorm and heavy rains and downpour etc.	**P 1 × S 2** **2**

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8	**Human error while performing the work activity**	• 1.stress2.unsafe acts, conditions3.poor attitude towards work4.lack of skills 5.wrong tools for job • Poor communication	• Personnel injury • Property Damage	• workersinvolved inthe job andnearbypersonnel	• Selection of competent and skilled personal Only trained and experienced personnel's shall be deployed for the job • Tool box talk shall be conducted before start of activity. • Ensure work is done only as per the approved Drawings, permits, MS&RA and work procedures • Sufficient time shall be given to complete the task to reduce pressure/stressDo not allow new/young or incompetent workers/ supervisors for sensitive works • Training shall be given on work/site management and behavior • Organizational learnings, sharing the incident alerts • Develop work patters and systems to minimize fatigue and stress • Provide the correct tools for the job • Ensure continuous competent supervision	**P 2 × S 2** **4**	• Developing work patterns and systems to minimize fatigue and stress,Ensure to use "Buddy System" and not to work alone. • Readily available means of communication to be available to report any incident at the site. • Where required walkie talkie radio shall be used for effective communications.	**P 1 × S 2** **2**
9	**Arrangements of Emergency Preparedness and Response**	• Lack of emergency awareness procedure2. • Poor emergency arrangements • Evacuation and Response plan,	• Personal injury/Fatality	• Workers,staffconsultant, client, visitors.	• Ensure proper emergency awareness training to all employees • Placement of Employee alert device, Emergency vehicle, Emergency first aid kit, first aid, firefighting equipment shall be readily available. • Emergency contact list and emergency evacuation layout shall be displayed at multiple locations. • Conduct routine mock drillIn case of emergency Contact the following:Project Manager, 0588269933Safety Officer. 050735 8526POLICE/Fire/Ambulance-999	**P 2 × S 3** **6**	• Comply ADOSH SF MS Element- 6.0 – Emergency Management • Ahaliya Hospital, Location – Musaffah – 028119119Lifeline Hospital, Location – Mussaffah – 800	**P 1 × S 3** **3**

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10	**Adverse weather condition (sandstorm, high winds, rain)**	• Reduced Visibility2. • Slippery Surfaces3. • Wet conditions and Unstable ground condition.	• Personal injury • Property damage	• workersinvolved inthe job andnearbypersonnelincludingstaff, clientsupervisorvisitors,workersinvolved in the job	• 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.	**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. • ADOSH TG-13.0-Dealing with Adverse Weather Conditions	**P 1 × S 2** **2**
11	**Housekeeping Activity**	• Obstructions2. • Slip, trip and fall3. • Fire hazards	• Personal injury • Property damage • Soil contamination	• Workers,Site staff	• 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. • Ensure operatives shall be wear suitable PPE, s based on the task. • Hand Gloves, Safety Shoes, Safety Goggles, Safety Helmet, Face/dust mask	**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 • Need to comply with ADOSH SF – CoP 2.0 – Personnel protective equipment Comply ADOSH SF CoP 54.0 – Waste Management	**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.