# /RISK ASSESSMENT AND ANALYSIS/تقييم المخاطر

| | | |
|---|---|---|
| **RA Number(رقم تقييم المخاطر):**<br>PRJ-2026-0002 | **:WORKPLACE/TASK/ACTIVITY/PROCESS NAME**132 **الموقع/المهمة/العملية/المعدة** kv cable installation | **DEPARTMENT/AREA( الإدارة/المنطقة):** Abu Dhabi |
| **RA TEAM(Names) (:أسماء فريق التقييم)**<br>**1.**<br>**2.**<br>**3.** | **LEAN CONCRETE POURING** | **DATE( التاريخ (:**<br>**NEXT REVIEW DATE( تاريخ المراجعة القادم:**<br>**APPROVED BY MANAGER/SUPERVISOR(اعتمد من قبل): Eng.**<br>**Singniture ( التوقيع):** |

| HAZARD IDENTIFICATION/تحديد الخطر | | | | CONTROL/وسائل التحكم | RISK ASSESSMENT/تقييم المخاطر | | | ACTION PLAN/خطه العمل لتقليل الخطر | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Item #** | **Workplace/ Activity/Process/Equipment/Material المواد/المعدات/العمل مهمه/العمل موقع** | **Hazards/الأخطار** | **Risks Issue (Possible incident) [What can go wrong] (Accident/ill health to persons, fire or property loss)** | **Existing Controls / وسائل التحكم المتوفره** | **Consequence / الشده** | **Likelihood / الاحتمالية** | **Risk Ranking / تصنيف الخطر** | **(Improve existing controls / implement new controls) وسائل التحكم والسيطره الاضافيه** | **Follow up by Whom (name) & By When (date) الجهه المعنيه بالتنفيذ/التاريخ** | **Controls Implemented Yes/No هل تم التنفيذ؟ نعم/لا** | **Consequence / الشده** | **Likelihood / الاحتمالية** | **Risk Ranking / تصنيف الخطر** |
| 1 | Employee Transportation to site | • Route / road unfamiliarity • Traffic accident • Blocking of roads or pathways | • Personal Injury / property Damage | • Proper access road to be used for mobilization. • All Employees must be transported to and from the Site via vehicles only and will be dropped off at the designated pick up and drop off points. • Provide adequate information, instructions, and Road safety training to workmen. • Obtained work permit and vehicles entry permits from related authorities All vehicles inspected and accepted too safe. • Ensure that all drivers hold valid UAE driving licenses and are aware of traffic regulations. • Prior inspection of site conditions before moving to new location. • Never travel with the mast in raised or partially raised position of equipment. • Observance in speed limits roads/working area. • Certified Banks man (ACTVET approved) with stop/go signals must be deployed for vehicle movement • Adhere to speed limits not more than 20 km/hr in construction areas and should not exceed 50Km/h speed on the haul road. • All site drivers must be oriented for site HSE requirements. • All drivers while driving / operating shall wear seat belt and mobile phones will not be used. • In case of any vehicle accidents, public /site access must be restored in coordination with the local police. • Mandatory PPE such as hard hat, Hi-Visibility vest, eye protection and safety boots will be wearing by all drivers. | 3 | 2 | 6 | • Adequate information, instruction and road safety training shall be provided for all workers and staffs • Maintenance of transporting vehicle shall be done periodically and driver shall be inspecting the vehicle on daily basis. • Additional training shall be provided for labor transporting vehicle drivers regarding the speed limit and road safety. • On case of any vehicle accident, public/site access shall be restored in coordination with the local police. | | | 3 | 1 | 3 |
| 2 | Entering into LIVE Mobile Substation for site visit | • Electrical system • Electrical shock • Unauthorized entry • Automatic CO2 Fire Extinguisher system • Insufficient Illumination | • Fatality/ Serious Injury/Property damage • Unconsciousness/convulsions Personal Injury • Fatality • Eye Strain, Discomfort Fatigue Personal Injury Property Damage | • Obtain appropriate safety document and adhere to the instructions in it. • Inform control centre before entering and leaving TAQA Premises Must Obey and follow mandatory signs and instructions in the areaDo not enter the area not mentioned in safety document • Unauthorized entry must be restricted • Competent person must accompany others at all times • Stay sufficiently away from live system • Toolbox Talk and risk assessment briefing has to be conduct before the work start everyday Qualified & Experienced personnel are permitted to work on or near exposed energized parts & for the activities • Demarcate barricade area and apply signage • Use Safety Helmet, Safety Shoes, goggles, Insulated Gloves, Coverall • Use approved Method Statement and Risk Assessment. • First aid box must be available at the work place and identify the location • Ensure Fire Alarm and Extinguisher CO2 release system are set to manual mode before entering building rooms • Ensure proper lighting available • Ensure rooms are obstruction free • Know the location of Emergency Exit Doors • Keep additional emergency lights in case of sudden power interruption Site Engineers presence and supervision is required Stop the work immediately if the illumination is not adequate Clear demarcation of safe area and apply sign boards • Use Safety Helmet, Safety Shoes, goggles, Insulated Gloves, Coverall. | 3 | 3 | 9 | • Follow TAQA SSRRefer and comply ADOSH- SF-CoP 15.0- Electrical Safety • Refer and comply ADOSH-SF-CoP 2.0- Personal Protective Equipment • Refer and comply ADOSH- SF-CoP 21.0- Permit to work systems Post Warning Signs must be visible to all the people who entering in to Live S/S. • Refer and comply ADOSH SF Cop 2.0- Personal Protective Equipment • Recovery Measure shall be available on site (emergency action plan, first aid box, first aider, emergency alarm, stand by vehicle & Fire extinguishers), | | | 3 | 1 | 3 |
| 3 | General Hazards | • Hit by / Pinch point • Slip/Trip/Fall Hazards • Hazardous substance • Chemicals Spillages • Dust • Human Error / Failure | • Sprain • Strain • Minor injury • Crush injury • Cuts, bruises • Broken bones by tripping over cables or tools/equipment left on the walkways • Environment pollution • Fire • Property damage • Respiratory health hazard • Pinch Point injury • Sharp edges • Slip / Trips • Lapse • Error / Mistakes • Safety Violations / Unsafe Acts. • Damage to existing utilities | • Risk assessment for manual handling shall be referred prior to work starts. • Use the correct tool for the job. • Use right holding device / tool while hammering heavy objects. • Keep hands away from the pinch points. • Follow appropriate manual handling techniques while lifting. • Use mechanical aid to lift or move heavy objects. • Use appropriate PPE such as abrasion / impact resistant gloves, Shoes, Helmet & Goggles. • Use heavy duty hand gloves. • Conduct toolbox talks on Manual handling and remind pinch points. • Handle loads which are well within carrying capacity,Makeshift hand tools shall not be used. • Job rotation shall be ensured. • Conducting joint health and safety committee monthly Inspections Establishing safe work practices. • Make sure there are shovels, mops, and buckets available. • Providing a procedure for reporting hazards. • Properly maintaining the workplace. • Periodic housekeeping shall be done between and end of the shift. • Providing signs for wet floors. • Proper access to the work area shall be provided. • Adequately compact ground before access. • All equipment shall be inspected prior to use. • Daily inspection of equipment or tools shall be carried out. • Cable management shall be done on site. • Tools or materials shall be kept away from walkways. • Clean and dispose of any spill immediately. • Drip tray shall be used while handling any liquids to avoid spillage. • Make sure to maintain three-point contact while accessing ladders. • All Staff involved shall be briefed about MSRA on the task prior to starting the work by CP. • Proper housekeeping shall be maintained. • MSDS reviewed for all substances and COSHH assessments conducted. • COSHH awareness shall be provided for workers. • Restricted entry of authorized people to work area. • Maintain log of personnel working with hazardous chemical or environment. • Emergency response procedure and route posted at site. • All Personnel trained on emergency procedure and emergency evacuation. • Follow the emergency procedures in case of emergency situations. • Emergency team / contact numbers posted at site. • Spill kits and eye wash station made available. • Personnel trained to use the emergency spill kit and eye wash station. • Trained Emergency first aider available at site. • First aid facility available on site. • Adequate fire extinguisher and fire fighter available at site. • Assembly point must be clearly identified to the working parties. • Emergency vehicle shall be available at site. • Collection, segregation and disposal of waste materials as per TADWEER requirements • Waste shall be disposed through a TADWEER approved ESPUse appropriate PPE's as per the MSDS while handling chemicals or hazardous substance. • Spraying water over excavated areas will be considered as practically as possible. • Wear appropriate PPE like, dust mask, safety glasses. • All personnel must be aware of TAQA SSR while working inside the existing live substation. • Safety Document shall be explained to Team Members during TBT. • Only access the location and area mentioned in the Safety Document in order to avoid damage to existing utility. • Approved drawings and permits shall be available at the site for reference. • Competent person shall be available always at site location. • Existing utilities and services shall be identified and clearly marked and communicated to all departments. • Proper waste management shall be in place and monitored. • Don't assign multitask to individual personnel. • Before assigning any activity to an individual, assess the capability. • Provide specific task related training. • Provide proper work instructions. • Ensure proper supervision for inexperienced workers and provide job aids and explain procedures. • Rest shall be provided in between strenuous work. • Daily Health Information of operatives monitored and recorded. • Ensure that there are no distractions and interruptions while working. (e.g., Mobile phone)Make sure rules and procedures are relevant and practical. • Adequate rest to be given to operatives. • Rotation of people to avoid boredom from performing repetitive tasks. • Assign only realistic deadlines for the tasks. • Provide with equipment or machinery to perform the task safely. • Provide appropriate PPE's and enforce all employees to use them. | 2 | 2 | 4 | • Ref. • OSHAD CoP 02.0 Personal Protective Equipment. • Federal Decree-Law No. (33) of 2021 (Regulation of Employment Relationship)Don't leave any tools, machinery unattended. • Ref. • OSHAD Cop 22.0 Barricading of Hazards. • Selection and use of appropriate PPE, as per COSHH assessmentMSDS's available at work location. • Suitable bunded storage facilities or drip trays available for all hazardous • Ref. • OSHAD Cop 1.0 - Hazardous Materials. • Use checklist to avoid or reduce the chance of mistakes. • Encourage workers for reporting of near miss and unsafe act / condition. • Tasks shall be modified into simple steps to avoid people overriding the procedure. • Continuously monitor the task and change current procedure if required to make it safe. | | | 2 | 1 | 2 |
| 4 | Working in Extreme Weather Conditions | • Working in direct sunlight and humid weather. | • Heat Stoke • Heat Exhaustion • Skin Burns • Dehydration | • TAQA System Safety Rules & ADPHC CoP shall be strictly followed regarding working in hot weather. • UAE Mid-day break Decree strictly followed, and no work will be carried out during the break time. • Creating awareness regarding the benefit and importance of drinking adequate quantities of water and its role in fighting out the heat • Provision of cold and clean drinking water to all personnel. • Provision of rest areas. • Provision of oral rehydration salts to workers • Provision of frequent breaks in extreme hot weather. • Monitor TWL and assign work accordingly. | 3 | 2 | 6 | • All Applicable legal requirements shall be complied. • Risk Assessment shall be communicated to all the operatives & Regular inspections & supervision shall be carried out by competent persons. • Ref ADOSH CoP.11 Safety in Heat. | | | 2 | 1 | 2 |
| 5 | Emergency Team arrangements / Preparedness / Emergency contingency plan/ procedural implementation. | • Fire • Chemical spill • Accident • Vehicle collision. | • Physical Injuries (Major /Minor)Property Damage • Fatality. | • Follow TAQA Permit to work procedure for the activities. • Restricted entry of authorized people to work area. • Emergency response procedure and route posted at site. • Follow the emergency procedures in case of emergency situations. • Emergency team / contact numbers must be coordinated properly with the site teams. • Basic firefighting equipment's i.e., Fire extinguisher CO 2 / Dry chemical powder and Carbon dioxide made available. • Trained & Certified fire fighter and First aider present at site. • Assembly point must be clearly identified to the working parties. • First aid facilities available at site office. • Emergency vehicle shall be available at site. | 3 | 3 | 9 | • All Applicable legal requirements shall be complied. • Risk Assessment shall be communicated to all the operative's Regular inspections & supervision shall be carried out by competent persons. • Ref ADOSH Cop 4.0 First Aid and Medical Emergency Treatment. • Ref ADOSH CoP 17.0 Safety Signage & Signals. | | | 3 | 1 | 3 |