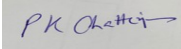
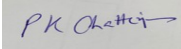
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				Prabir	Safety Officer		


No	ACTIVITY	IDENTIFIED HAZARDS/RISKS	People Involved	Base Risk Ranking (Without Controls)				CONTROL MEASURES	Residual Risk Ranking (With Controls)				Person Responsible
				L	S	Risk Score	Risk Rating		L	S	Risk Score	Risk Rating	

1	Dismantling of DB/SMDB/ Temporary stepdown transforms	Electric Shock Electrocution Exposed Energized Terminals Electrical Fire Burn Manual Handling	Involved all person visitors	3	4	12	Med	1) Work at height Permit to be obtained if working on height 2) STARRT card must briefed before starting the work 3) Ensure Proper RAMS briefing with sign off sheet signed by all involved personnel 4) Before starting any Electrical dismantling activity make sure power supply disconnect but if any near by services is still live/energized make sure obtained working near live services Permit. 5) Ensure that proper safety PPE is used. These include safety shoes, safety helmet, safety gloves (Rubber-Electrical), Rubber mat, insulated ladders 6) Fire extinguisher, Fire blanket shall be in place 7) Unauthorized personnel must be kept away from the dismantling work area. Barricade the	1	4	4	Low	Electrical Supervisor Foreman

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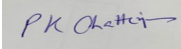
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4								area with warning signs boards 8) Always use proper tools in dismantling activity. 9) Only qualified and experienced persons to do all dismantling activity 10) Ensure all the temporary step-down transformer is electrically isolated. 11) All hand tools must be insulated 12) Operatives hands should not wet and dress must be dry also 13) Make sure the entire team continues the use of electrical safety procedure 14) Barrier any device that is designed to restrict approach to live electrical apparatus 15) Isolate to physically disconnect from all possible sources of electrical potential. 16) Identify and avoid electrical hazards 17 Supervisor must make sure while manual handling loads individual task and environment to be considered to reduce the risk of manual handling					
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2	Dismantling of Plumbing Pipe, Pump and fittings	Water leakage & Flooding Manual handling Wrong Posture Poor visibility Lack of access & egress Back aches Slippery surfaces	Involved all person Visitors	3	4	12	Med	1 All the water supply must be disconnected from Temporary water tank before dismantle all the devices and pressure gauge from tank. 2 Supervisor to ensure that proper barricade and warning signs are provided if some Temporary activity on access/egress 3 All the plumbing fitting must be dismantling safely to prevent water leakage and flooding. 4 Work briefing must be conduct before starting the activity. 5 Eliminate the need for manual handling by using mechanical aid. 6 Operatives must be trained for safe manual handling 5If unsure of the load weight, check with supervisor. 6 Ensure proper manual handling procedur 7Ensure adherence with sufficient and appropriate PPE. 8 Limit loads carrying to 20kg per person 9 Supervisor must make sure while manual handling loads individual task and environment to be considered to reduce the risk of manual handling. 10 Manual Handling assessment will be carried	1	4	4	Low	
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								by SAF 68					
								11 Make sure House keeping carried after work and remove water if leakage.					
3	Lifting of dismantle pump and Heavy materials	<ul style="list-style-type: none"> Equipment failure Defective lifting gears Slips, trips and falls Crushed between Pinch point, trapped body parts Adverse weather conditions Toppling of lifting equipment Falling materials Falling objects Failure of communication Uncertified operator/Riggers and lifting gears Overloading Damage to existing facilities Improper rigging and lifting practice Uneven Ground level 	Operatives Staff/visitor	4	4	16	High	1) Lifting permit issued and signed off by appointed person. 2) Crane must be certified as fit for use within the last 12 months by OSHAD approved third party. 3) All lifting accessories must be certified as fit for use within 6 months by OSHAD approved third party. 4) STARRT card briefing to be conducted to all workers prior to commencement of works. 5) Before starting work, check the work area for the presence of aerial hazards (if any) and other obstructions. 6) Check the ground conditions prior to any erection of crane 7) The tail swing area must be cordoned off to avoid collision/crushing. 8) Install exclusion zone around lifting activity. 9) Ensure that the area is being barricaded with adequate signage 10) Always ensure banksman to be present 11) The capacity of crane should be proportionate with the weight of the Load 12) Check the load before lifting. 13) Check the lifting point and ensure that the lifting points are in good condition as per	1	4	4	Low	Appointed Person, Lifting Supervisor, Foreman, Engineer


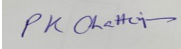
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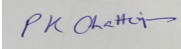
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		<ul style="list-style-type: none"> Mechanical failure Wear and tear of lifting accessories Property damaged Environment contamination Serious injuries including cut, bruises, strain, sprain and fracture Fatality						requirements. 14)Ensure safe rigging practices are followed under competent lifting supervisor. 15)Lifting supervisor to check and verify the load chart. 16)Ensure that rigger and operator are aware about the signals 17)Adequate padding must be provided for outriggers as per rig configurations calculations 18)The crane should have its outriggers fully extended and be so positioned that the operator has a clear view of the operations and rigger. 19)Lifting operations should be suspended if adverse conditions persists and wind speed more than 38kmph. 20)Crane inspection to be carried out prior to operate the crane and fill the check list. 21)Pre-lift inspection to be completed for the crane and lifting gear prior to use. 22)Rigger and operator to ensure load airway is clear 23)Ensure ground level firm, compact and free from any impediments 24)Follow equipment's load chart capacity 25)Never attempt to move a load greater than SWL 26)Check advance weather report. 27)Only trained and competent Operator and rigger to appoint for task with valid third-party					
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12								certificate. 28)Conduct TBT prior to start of work, discuss hazards, risk and control measures 29)Ensure only authorized personnel within lifting area. 30)Use tag lines to manoeuvre the load. 31)Ensure operatives are not moving under the suspended load. 32)Spider beam shall be inspected and certified by approved third party consultancy. 33)Equipment should be well maintained and out of defect. 34)Ensure all belts unlashed prior to lift the load. 35)Do not leave the load suspended and never stand/walk under the lifting load. 36)Initial lift of 50cm to be completed to ensure center of gravity achieved and no loose loads before hoisting. 37)Use site mandatory PPE's all the time. 38)Ensure all lifting gears are inspected and color coded. 39)All lifting gears to be properly stored. 40)Ensure warning light installed on the highest point of the crane for extended hours lifting operations. 41)Use sleeves at sharp edges to prevent damage to the lifting gears. 42)Ensure anemometer is installed and working. 44) Ensure operator cabin is not covered with					
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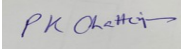
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								handmade curtains.					
4	Use of Ladder	Falling from height Working on Uneven ground Falling objects	Operatives/ Staff/	3	4	12	Medium	Ladder is not to use daily basis but in certain cases where there is very narrow place and even podium ladder not possible to fix in that cases Ladder can use if permission granted from McLaren Safety 1) Only light work, off short duration and work in which the operative can maintain secure hand and foot hold can be undertaken form a ladder 2) Never try to overreach with any ladders 3) Check the ladder is of suitable quality for industrial use and is in good condition 4) Maintain a minimum of 3 points of contact with stepladders at all times (feet/thighs/hands) If possible avoid the use of stepladders at a working height of 2 meters and more. 5) Check the ladder legs (and stays) are fully deployed or locked (depending on type) to maintain maximum base dimensions and the step ladder is orientated to provide maximum stability. 6) Stepladders/ladders has to be used on leveled ground/firm base 7) Ensure that during using ladder from the top 2 steps is blocked to avoid climb on that. 8) The ladder securely fixed to prevent slipping outwards or sideways or securely footed at all times. 9) Person must hold the ladder while another operative working on it	1	4	4	Low	Electrical Sup Foreman


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								8) Materials should not be placed above the thread of ladders/step ladders 9) Do not carry any materials in one hand while climbing or getting down from ladder 10) Ensure the area under the ladder is barricaded especially if it is being used in a public area. 11) Ensure the ladder is electrical insulated podium type if working in live services					
5	Use of power tools such as, Drill machine,	Damaged cable insulation, Sockets. Electrocution Electric shock Short circuit Trip/Fall Noise Hearing loss Vibration Dust	Operatives and staff	3	4	12	Med	1) All portable electrical equipment must be PAT tested and color coded. Make sure the test dates are visible on the equipment. 2) Ensure all power tools 110 volt and maintained 3) PTW to be obtained, prior to commencing the task 4) Damaged industrial sockets and power cables must be removed. 5) Ensure the electrical cable is not damaged and has not been repaired with insulating tape or unsuitable connectors. 6) Ensure cables from power tools shall be organized so as not to present a tripping hazard 7) Only trained competent operatives to operate the power tools. 8) Ensure proper and regular maintenance of equipment that takes account of noise 9) Ensure proper hearing protection always. 10) Make sure people use the right tool for the job and are trained to use it correctly	1	4	4	Low	Supervisor Foreman


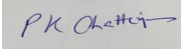
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								11) Ensure defective tools that require maintenance is reported for repair or replacement. 12) Instruct workers to keep their hands warm and dry, and to not grip a vibrating tool too tightly. Workers should allow the tool or machine to do the work. 13) Ensuring proper job rotation and limiting time operatives working with power tools and hand tools. 14) use dust mask					
6	Use of Hand tools	Improper selection of hand tools. Damaged and Defective Hand tools Hand injuries Pinch point Ergonomics Repetitive strain injury	Operatives/Staff	3	3	9	Medium	1 Hand tools should be visually inspected for defects, prior to use 2 Select right tools for right Job 3 Ensure no Homemade or makeshift tools to be used at site 4 All the test kit power connection must be in good condition and no loose connection 5 Ensure Hand tools are Stored in accordance with the manufacturer's instructions. 6 Ensure hands are not in direct line of fire while working with hand tools. 7 Electrical Permit need to obtain for using Testing kit if above 110V. 8 Only authorized persons are allowed during testing activity and area must be barricaded with caution signage. 9 Ensure appropriate PPE always.	1	3	3	Low	Supervisor Foreman
7	Working at night time	Poor visibility due to darkness / poor illumination	Operatives/staff	3	4	12	Medium	1) Ensure proper night work permit is obtained 2) Proper lighting system should be in place 3) Ensure proper Communication / Coordination	1	4	4	Low	Site Engr Supervisor Foreman

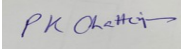
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		Lone worker						and close supervision 4) Industrial safe torches to be available for emergency situations 5) High visibility Traffic Vest for personnel's in night shift 6) Avoid lone working and always ensure buddy system while working at night 7) Employees to be trained and understand McLaren Crises plan.					
8	Working in hot weather / working in heat – direct to sun	<ul style="list-style-type: none"> Constantly working without drinking water, exposed to sun Exhaustion, nausea, vomiting, dizziness, headaches, confusion, disorientation, heat stress, Heat stroke / cramp Heat stroke/ stress/ cramp	All operatives Visitors Staff	4	5	20	High	1. STARRT card briefing to be conducted to all workers prior to commencement of works. 2. Comply with Summer working Plan and heat stress procedures as per SHEQ plan. 3. Provide adequate quantity and quality of drinking water by arranging water coolers. 4. Limit work in extreme temperatures during summer times. 5. Providing shaded work areas as much as possible. 6. Regular intake of food and drink adequate quantity of water. 7. Reduce oily related food and soft drinks. 8. Sharing heavy work. 9. Ensure that the operative is fit to work under direct sunlight 10. Use of buddy system to monitor colleague's health 11. Scheduled rest breaks to be provided (Frequent breaks, minimum 10 mins every 2 hours.	1	5	5	Low	Engineer Supervisor Foreman First aider/ Const team & HSE team

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								12. Drink water every 30 minutes and Electrolytes as per manufacturer recommendation and timescales. 13. Schedule work to minimize exposure. 14. Newly mobilized workers shall be acclimatized and never assigned heavy task or direct exposure to hot environment. 15. Re-schedule hard work activities in coolest part of day where possible. Ensure no worker work alone in heat stress area. 16. Site supervisors shall perform job rotation to the workers. Must aware on TWL (thermal work limit) and its necessary precautions. 17. Adequate PPE and proper clothing during when working under high temperature e. g. lightweight, cotton and light colored). 18. Train supervisors to detect and manage symptoms of heat stress among the workforce. 19. Provide temperature-controlled rest areas with adequate provision of tables and chairs to be in place. 20. Provide Heat Stress General Awareness Training with regular refresher sessions for all operatives. 21. Encourage workers to keep covered up during the summer months (using a long-sleeved shirt and a hat with a brim or flap that protects the ears and neck), especially during mid-day when the sun is at its hottest.					
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								22. If practical, allow workers to set their own place of work Monitoring & supervision 23 Incase of Heat Stress / Stroke /Cramp Monitor body temperature and continue cooling efforts until the body temperature drops to 37–38°C. 24 Not to give the victim any fluids to drink, Provide drinks if recommended by first aider depending on health conditions 25 If conscious, Talk to the Victim during assessment and ensure he's awake. 26 Cool the victim rapidly using whatever methods are available, eg immerse the victim in a tub of cool water, place the person in a cool shower, spray the victim with cool water from a hose, sponge the person with cool water, or, if the humidity is low, wrap the victim in a cool, wet sheet and fan him vigorously. 27 Seek medical help and transfer to hospital					
9	COVID-19	Cough Sneezing Fever (fever as body temperature higher than 38°C Headache Nasal Discharge	All employees	4	4	16	High	1) Supervisors to give TBT ensuring small group of people maintaining 2meter distance between individuals. 2) Operatives musts try to perform their duties maintaining some at least 2meter distance from each other wherever possible. 3) Appropriate personal hygiene posters to be displayed on notice boards at workplace.	1	4	4	Low	Supervisor Construction Operatives


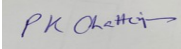
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								4) Maintain high standards of hygiene. 5) Intensive routine sanitation/disinfection of Offices, desks, chairs, laptop/desktop keyboards, dining tables, drinking water stations, toilets, door handles, pantry, visitor PPE's. meeting tables to be disinfect after each use. 6) Disinfection of site offices, Welfare areas and work areas to be carried out 7) Temperature monitoring of employees/visitors on site arrival by using infrared thermometer, person with above 38° temperature will refuse to access site or offices. 8) Avoid close contact with anyone showing symptoms of respiratory illness, maintain social distance on 2meter. 9) Wash hands often with soap and water for at least 20 seconds, follow the displayed poster at washbasins. 10) Use hand sanitizer if soap and water are not available, sanitizer dispensers installed at AKS site: Security post, operatives dining area and Office reception, Sub Contractors room and meeting room. 11) Cover your mouth and nose with a tissue or your sleeve (not your hands) when coughing or sneezing. Put used tissues in the bin immediately. 12) Avoid touching your eyes, nose or mouth					
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								without washing your hands 13) Take enough rest and take a large amount of fluids. If you have Cough, Shortness 14) If you have Cough, Shortness Breath, Fever, Sore Throat, headache seek medical care early and stay at home. 15) Avoid spiting at workplace/site. 16) Do not travel while sick. 17) In the event that any medical support or inquiry is required, please contact: a. "Estijaba" service at the operation center – Department of Health at 8001717 b. Ministry of Health & Prevention at 80011111 c. SEHA 80050 d. Abu Dhabi COVID Emergency helpline +971563713090 McLaren Incident reporting protocol to be followed					
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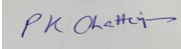
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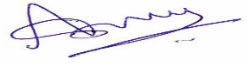
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21 Approved By: Name Vishnu Mohan Position PM Signature 

RISK ASSESSMENT & CONTROL GUIDELINES

1. Executing Steps:

1.1. Planning

- Construction and HSE team must ensure that hazard identification is complete.
- Construction and HSE team must prioritize the hazard issues, which are of significant in nature. (It means that risks have well established legal requirements, potentially high risks).
- Construction and HSE team to prepare the risk assessment plan for the priorities identified hazards for these potential high risks.

1.2. Risk Assessment

Risk is the probability of an event occurring in a given set of circumstances. The 'event' is an exposure to hazard. The hazard is the potential to cause harm. The risk assessment is the technique of evaluating not just the likelihood of an event occurring, but also the outcome will be in terms of injury, loss, damage or harm.

1.3. Risk Assessment Process

The process of carrying out a risk assessment should be as follows.

- Identify the hazards.
- Identify who might be harmed and how.
- Evaluate the risk and implement the control measures.
- Record the significant findings.
- Review the assessment and update if necessary.

1.4. Examination of the Hazards and Risk Associated

- Competent staff must be used in examining the risk associated with the identified hazard.
- Competent staff should examine following aspect to determine the risk involved:
 - Examine the existing control measures in place.
 - Identify employees at risk.
 - Likelihood of risk.
 - Severity
 - Risk level and their tolerability.

1.5. Evaluating the risk:

Once the necessary information has been obtained on the hazards encountered by work activities, next stage is to access the risks.

1.5.1. Risk Rating Score

Risk rating score is a combination of two factors.

- The severity of the risk that could injure persons or cause damage to plant.
- The likelihood of the risk that it could happen (Probability).

RISK RATING = LIKELIHOOD X SEVERITY

NOTE: Each activity has to be assessed for the risk value for determining the level of Severity and likelihood are mentioned in the table below.

		SEVERITY				
LIK ELI HO OD		No Injury (1)	Minor Injury (2)	Moderate Injury (3)	Major Injury (4)	Catastrophic (5)
	Rarely (1)	1	2	3	4	5
	Unlikely (2)	2	4	6	8	10
	Possible (3)	3	6	9	12	15
	Likely (4)	4	8	12	16	20
	Almost Certain (5)	5	10	15	20	25
RISK LEVEL:		Low		Medium		High

