Document Transmittal Form (DT)

Project Name:	**Harrow School-Abu Dhabi**	**Project No:**	**2419 / AD353**
Client:	**Taaleem Management LLC**	**Location:**	**Abu Dhabi**
Consultant:	**Al Suweidi Engineering Consultants LLC**	**Reference No:**	**AS-AD353-DT-038-R3**
Contractor:	**Al Hikma Building Contracting LLC**	**Date :**	**22-Oct-25**

Subject: **Emergency Response Plan**

Detail of Clarification/ Information Required:

Type: (Tick Applicable**)**	☐ Technical Data	☐ Guarantee	☐ Certificate	☐ Test Result
	☐ Schedules/ Programmes	☐ Report	☐ Statutory Issues (NOC)	☒ Others
Attachment	☐ Samples	☐ Drawings	☐ Catalogue	☐ CD's
Purpose of Issue	☒ For information	☐ For further Action	☒ For Record	☒ For Review

Detail : Emergency Response Plan

Issued By & Signature : (Project Manager)	**Issued To :**	**Action Required By :**
Mr. Jiries Hani		
Reference Document : (Attach if any relevant documents)	**Work Location : (**if applicable**)**	

Received By :		**Date :**	

Comments (if any) :

1.Ensure the Emergency Management Plan is communicated to all site personnel through inductions, toolbox talks, and regular drills.
2.Emergency contact numbers (Ambulance, Civil Defense, Police, First Aid, Fire Wardens, etc.) must be displayed at prominent locations across the site.
3.Emergency evacuation routes must be physically marked on site, kept unobstructed, and provided with clear signage.
4.Firefighting equipment and first aid stations must be installed, labeled, regularly inspected, and maintained.
5.Trained fire wardens, first aiders, and emergency response team members must be appointed, and their names/photos displayed on site notice boards.
6.Mock emergency drills (fire, medical, evacuation, etc.) must be conducted as per plan, recorded, and corrective actions implemented.
7.Hazardous materials and fuel storage areas must have spill kits, firefighting arrangements, and emergency response procedures readily available.

Eng. Ali
27/10/2025

Eng. Mohammad Al Kubba
27/10/2025

Note: This document provides information or clarification only. If the Contractor considers the provided information as changes to the original Contract, then the Contractor has to obtain the required approval as establi

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Document Transmittal Form (DT)

Project Name:	**Harrow School-Abu Dhabi**	**Project No:**	**2419 / AD353**
Client:	**Taaleem Management LLC**	**Location:**	**Abu Dhabi**
Consultant:	**Al Suweidi Engineering Consultants LLC**	**Reference No:**	**AS-AD353-DT-038-R2**
Contractor:	**Al Hikma Building Contracting LLC**	**Date :**	**04-Oct-25**

Subject: **Emergency Response Plan**

Detail of Clarification/ Information Required:

Type: (Tick Applicable**)**	☐ Technical Data	☐ Guarantee	☐ Certificate	☐ Test Result
	☐ Schedules/ Programmes	☐ Report	☐ Statutory Issues (NOC)	☒ Others
Attachment	☐ Samples	☐ Drawings	☐ Catalogue	☐ CD's
Purpose of Issue	☒ For information	☐ For further Action	☒ For Record	☒ For Review

Detail : Emergency Response Plan

Issued By & Signature : (Project Manager)	**Issued To :**	**Action Required By :**
Mr. Jan Kuhn		
Reference Document : (Attach if any relevant documents)	**Work Location : (**if applicable**)**	

Received By :		**Date :**	

Comments (if any) :

1. Always attach the comments compliance sheet with page number references indicating where each comment has been addressed when submitting a revised document.
2. The contractor failed to comply with the previous comments issued by the client in Revision 01.
3. Attach the emergency evacuation layout for both the offices and the site.

Eng. Ali
08/10/2025

Eng. Mohammad Al Kubba
08/10/2025

Note: This document provides information or clarification only. If the Contractor considers the provided information as change to the original Contract, then the Contractor has to obtain the required approval as established in the Condition of Contract.

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REVISE & RESUBMIT

taaleem inspiring young minds	ALSUWEIDI السويدي للاستشارات الهندسية AL SUWEIDI ENGINEERING CONSULTANTS	HBC AL HIKMA BLDG. CONT. (L.L.C.)

Project Name:	**Harrow School – Abu Dhabi**	**Project No:**	**HBC-D-353**
Client:	**Taaleem Management L.L.C**	**Location:**	**Saadiyat - AD**
Consultant:	**Al Suweidi Engineering Consultants LLC**	**Refer No:**	**HBC-HSE-03**
Main Contractor:	**Al Hikma Building Contracting LLC**	**Date:**	**21/10/2025**

Comments Compliance Sheets

S.No	Consultant Comment	Contractor Response
1	Always attach the comments compliance sheet with page number references indicating where each comment has been addressed when submitting a revised document.	Attach the comments compliance sheet with page number references indicating where each comment has been addressed when submitting the revised document.
2	The contractor failed to comply with the previous comments issued by the client in Revision 01.	HBC comply with all SOPs in accordance with the client, M/s Taaleem Management L.L.C, included the Emergency Response Plan SOP (TAAL_PROJ-009_SOP).
3	Attach the emergency evacuation layout for both the offices and the site.	The emergency evacuation layouts for both the offices and the site have been attached for review.
4	Section 6 and Appendix B (Emergency Procedure Flowchart) show “Report to Consultant Otak” and “Client DMT,” which are not related to this project. Provide an emergency flowchart specific to this project only, not for other projects.	Section 6 and Appendix B will be revised to remove references to “Consultant Otak” and “Client DMT.” A new emergency procedure flowchart specific to this project will be developed and inserted to accurately reflect the project’s reporting lines and emergency contacts.
5	In Section 8.3, it mentions following the instructions of “Bastain.” Bastain is not a contractor for this project. Ensure the emergency plan is developed specifically for this project and not copied from other documents.	The reference to “Bastain” will be removed from Section 8.3. The section will be revised to accurately reflect the roles, responsibilities, and procedures specific to this project. The emergency plan will be updated to ensure all information is project-specific and not derived from unrelated documents.
6	Appendix A (Emergency Evacuation Layout) is unclear. Provide a clear layout showing the location of fire-fighting points, fire alarms, emergency resource locations, and a clear route to the assembly point and vehicle movement routes.	Appendix A will be updated to include a clear and detailed Emergency Evacuation Layout. The revised layout will show the locations of fire-fighting equipment, fire alarms, emergency resource points, designated assembly areas, and vehicle movement routes to ensure safe and efficient evacuation during an emergency

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Project Name:	**Harrow School – Abu Dhabi**	**Project No:**	**HBC-D-353**
Client:	**Taaleem Management L.L.C**	**Location:**	**Saadiyat - AD**
Consultant:	**Al Suweidi Engineering Consultants LLC**	**Refer No:**	**HBC-HSE-03**
Main Contractor:	**Al Hikma Building Contracting LLC**	**Date:**	**21/10/2025**

Comments Compliance Sheets

7	Provide emergency contact numbers and details of the emergency team separately for both day and night shifts.	**Section 15:** Emergency contacts and team details will be provided separately for day and night shifts.
8	Include emergency scenarios and rescue arrangements for tower crane operations.	**Section 16:** Emergency scenarios and rescue arrangements for tower crane operations will be included.
9	Provide a list of emergency resources for the project, e.g., emergency rescue equipment, fire-fighting equipment, etc.	**Section 16:** A project-specific list of emergency resources, including rescue and fire-fighting equipment, will be added.

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CLIENT	CONSULTANT	Main CONTRACTOR

Emergency Response Plan

Project: Harrow School Abu Dhabi- Al Saadiyat Island

Project Description	**Construction Al Saadiyat Island**	Project Site No.	# 353
Project Name:	**Harrow School Abu Dhabi**	Date Prepared:	21-10-2025
Business Unit	**M/S Al Hikma Building Contructing L.L.C**	Review	As required
Consultant	**M/S Al Suweidi Engineering Consultant**	Revision	03
Clients Representative	**M/S Taaleem Management L.L.C**		

Prepared by:	**Reviewed by:**	**Approved by:**
Mr. Damodhar Zamuni	**Mr. Jieris Hani Oweis**	**Consultant**
HSE Engineer	**Project Manager**	
Sign:	**Sign:**	**Sign:**
Date: 21-Octber -2025	**Date:21-October -2025**	**Date:**

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1. INTRODUCTION

This plan defines the procedures to be followed in the event of an emergency at the **Harrow School Abu Dhabi – Al Saadiyat Island Project.** Its objective is to minimize injury to personnel, prevent environmental damage, protect assets, and safeguard the reputation of **AL HIKMA BUILDING CONTRACTOR L.L.C.**

Proper preparation is essential to ensure safety and survival. A written Emergency Response or Action Plan serves as the most effective tool for managing emergencies. In addition, this Standard Operating Procedure (SOP) outlines the company's approach to promoting energy and resource efficiency throughout all construction activities. The purpose is to ensure that all projects: **M/s Al Hikma Building Contracting L.L.C will comply with all SOPs in accordance with the client, M/s Taaleem Management L.L.C, including the Emergency Response Plan SOP (TAAL_PROJ-009_SOP).**

2. Scope

The scope of this plan covers all of the CONTRACTORS construction site locations.
This procedure is prepared & implemented in line with the HBC emergency response procedure & Emergency Response Team and covers detailed steps of response for various identified Emergency Scenarios within Harrow School Abu Dhabi Project.
This SOP applies to all on site activities during the construction phase, including enabling works, structural erection, MEP installations, and interior fit outs. It covers energy use, water conservation, material efficiency, and construction waste management. The procedures are applicable to main contractors, subcontractors, site personnel, and project consultants.

3. Emergency scenarios

The types of Undesired Event and the level of seriousness, which would constitute an emergency scenario in the PROJECT, are:

1. Fire
2. Explosion
3. Medical Emergency
4. Environmental Pollution
5. Vehicular Accident
6. Electrocution
7. Sandstorm
8. Earthquake
9. Bomb Scare/Threat
10. Flood

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11. Pandemic /Infectious Disease; COVID19 & Monkey Pox
12. Mass gathering (Strike)
13. Workplace Violence
14. Traffic accident (Public vehicle hitting site fence)
15. Damage to underground services
16. Excavation collapse
17. Confined space emergency
18. Working at height

4. ABBREVIATIONS

ECC	Emergency Control Centre
ERT	Emergency Response Team
HSE	Health, Safety and Environment

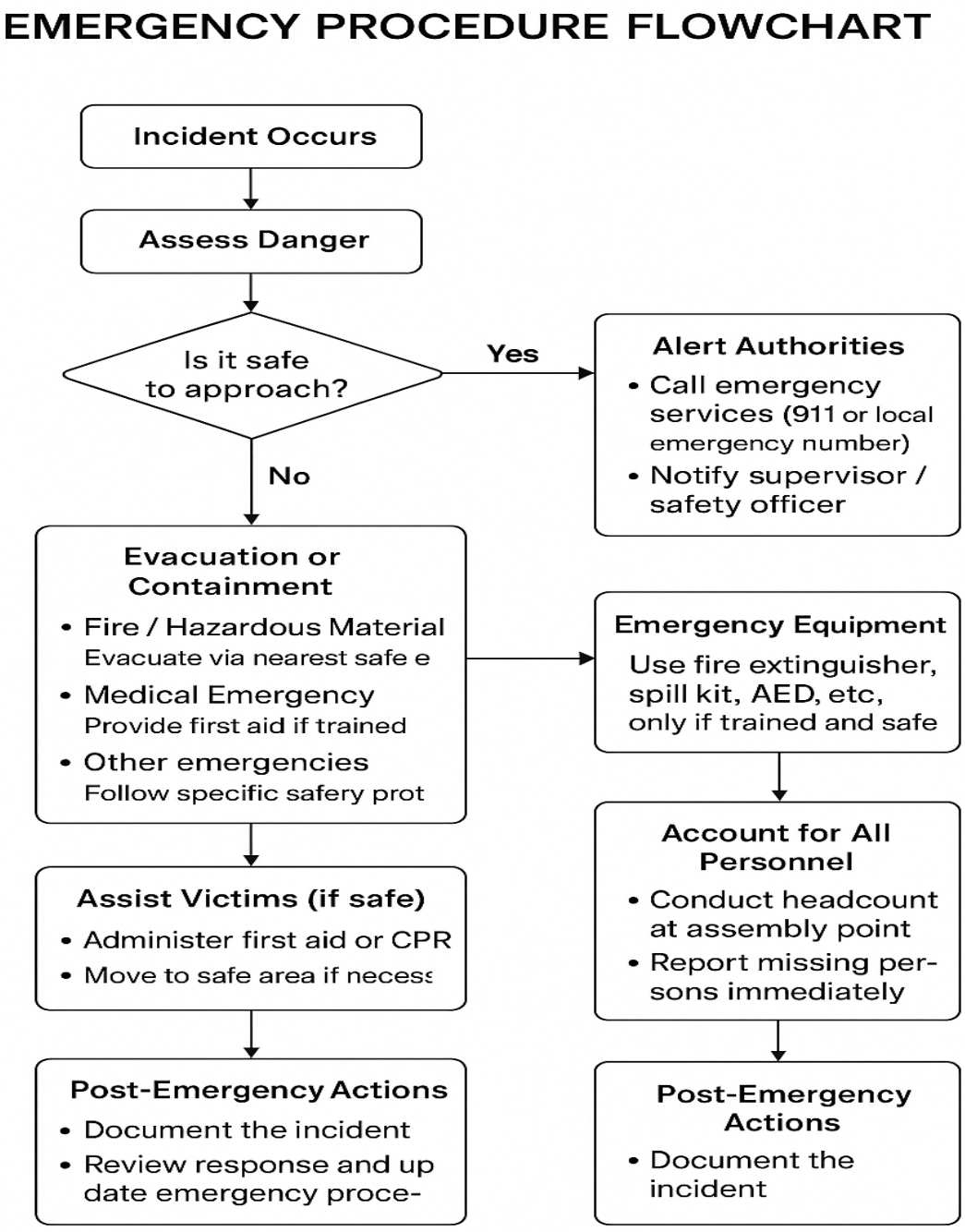
5. Emergency RESPONSE team (ERT)

5.1.ROLE IN ERT	5.2.POSITION	5.3.NAME	5.4.CONTACT NO.
TEAM LEADER	PROJECT MANAGER	Jieris Hani	055-62773665
ASST. TEAM LEADER	HSE	Damodhar Zamuni	056-8287679
ADMINISTRATOR	CONSTRUCTION MANAGER	Mohammed Ibrahim	056-8286965
Site In charge	Site Engineer	Khalid	054-4086548
SAFETY	Project SAFETY Team	Damodhar	056-8287679
		Lutf Ull Khan	052-7675227
NURSE/ FIRST AID	TBA		

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6. EMERGENCY PROCEDURE FLOWCHART



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NOTE When reporting an emergency, give the following information:

- Exact nature of the emergency (describe as clearly and accurately as possible).
- Exact location or building, floor, and area or department.
- Your full name.
- Do not hang up, as additional information may be needed.

7. Fire Fighter and Duties

Fire fighting team should initiate the action for controlling the fire. They are the trained fire fighters having knowledge of various types of fires. Their sole responsibility is to assist the ERT in the event of fire emergency procedures, and to ensure that the following are being maintained on a daily basis:

- Fire escapes are clear of obstructions.
- Emergency service vehicle routes are clear.
- Fire points are clear and extinguishers in place.
- All flammable gases / materials are correctly stored.
- Rubbish is not accumulated.
- Assist the response team with any other duties, which may arise.
-

8. THE DEFINED ROLE FOR EACH MEMBER OF ERT:

8.1. Team Leader

Head of Projects or Project Manager has been identified as the "Emergency Response Team Leader". In his absence, Assistant Team Leader will be identified as the alternate Emergency Response Team Leader. Ensure implementation of all efficiency measures and compliance with regulations.

- Sets the objectives and priorities.
- Is responsible for all site control of the Emergency situation.
- Acts as the single point of contact with the project site.
- Makes decisions on all actions to be taken.
- Maintains contact with HBC Head Office & COMPANY.
- All people on the Emergency Response Team report to him.
- The sole point of contact for receiving notification of Emergencies.
- Must be available on base during office hours and have phone contacts during periods out with normal office hours.

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8.2.Assistant Team Leader

HSEW Lead will be the Assistant Team Leader; he will carry out the duties of Team Leader in his absence.

- Coordinate all the activities.
- Provide support and information needed by Emergency Control Team Manager / Members.
- Co-ordinate with and guide the Abu Dhabi Fire Brigade Team on arrival at the site, through the site roads.
- Provide guidance / assistance in starting Trailer mounted Fire water pump (if required)
- Function as the facilitator of the site team investigating on the causes of the incident so that such incidents are not repeated in future.
- Ensure the proper proceedings of EMERGENCY operation.

8.3. Administrator

Construction Manager will act as the administrator in an emergency scenario. He keeps the list of persons who are on duty during the particular shift, with a view to facilitate Roll Call at Assembly Points.

- Responsible for confirming evacuation of all people on Project and facilities, communicating with line managers to ensure the evacuation of Project and coordinating all logistics needs such as transport etc.
- Responsible for establishing and coordinating all communication with the relevant regulatory agencies (such as police, civil defense, medical & rescue agencies).
- Arranges all the welfare activities required at the time of emergency.
- Organize to use Public Address system to warn the local population about the emergency and actions to be taken by them, for example: - **"DO NOT PANIC"** or **"STAY INDOORS"** or **"FOLLOW INSTRUCTIONS OF HBC ” or "WAIT FOR INSTRUCTIONS"**
- Facilitate effective Public Relations with a view to contain / prevent misinformation about the incident.

8.4. Procurement Team: Source sustainable materials and energy-efficient equipment.

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8.5 Site in charge

Engineer will be the Site in Charge in time of Crisis.

- Responsible for providing technical support, advice, and information to the emergency worksite in accordance with the nature of the emergency and their relevant area of experience.
- Switched off the power to control emergency.
- Facilitate conducting "ROLL CALL" of site personnel by checking against Head count in coordination with the administrator.
- Provide advice on and initiate technical corrective actions depending on the type of emergency.
- Give instructions to discontinue / shutdown operations in a planned phased manner.
- Render necessary support services to the Project Manager.
- Enforce day to day compliance with efficiency practices.

8.6. Safety Engineer/Officer

Safety Engineer/Officer will be the security and responsible for:

- The main function of his team is to cordon off the site and control the mob. The team members also help the fire fighting team. The team members should guide external agencies like Fire Brigade to the place of emergency.
- Ensuring that electricians isolate the electric source of the area of emergency.
- Make sure that plant and machineries do not obstruct the movement of Fire Brigade vehicles, Ambulances, etc.
- Make sure that all plant and machineries are shut down.
- Monitor usage data, provide training, and report performance.

8.7. First Aider

The team members should know how to give the first aid. Their main function is to give first aid till the victims get external medical help.

9. All Workers / Subcontractors & Visitor Control

- All visitors must report to the Security Station.
- The guard shall proceed the following.
- To request identification.
- To request visitor's signature in the Visitor's Register.
- To request the name of the person that the visitor wishes to visit.
- All visitors shall be provided with appropriate PPE and will be inducted in HSE Office.

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- Follow energy and resource efficiency practices as part of daily site activities.
- Attend the Project Safety Induction
- Follow the site emergency procedure.

10. LOCAL EMERGENCY NUMBERS:

RELEVANT AUTHORITY	
AUTHORITY	**TELEPHONE NUMBER**
Ambulance	998
General Directorate of Abu Dhabi Police	999
Fire	997
TBA	

11. EMERGENCY PREPAREDNESS

Description

To function effectively and efficiently during emergencies, the following actions should be taken immediately:

11.1. On discovering a fire:

1. Remain calm – Assess the situation.
2. Immediately call for help and report location of fire to any of ERT as per site procedures.
3. Activate fire alarm/call point or shout "Fire" and ensure someone is sent to summon the ERT.
4. Alert others; move everyone away from area of fire.
5. Use fire extinguisher on small fires ONLY if it is safe to do so. Ensure that you are using **appropriate fire extinguishers** for the type of fire.
    - Class A – solid materials (ordinary combustibles)
    - Class B – flammable liquids
    - Class C – Electrical
    - Class D – Combustible metals
    - Use dry chemical powders on A, B, C type fires
    - Fire extinguishers have limited operation time – 8 to 10 seconds

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Fire Extinguisher Instructions: PASS

1. **PULL** safety pin from handle.
2. **AIM** (nozzle, cone, and horn) at base of fire.
3. **SQUEEZE** the trigger handle.
4. **SWEEP** from side to side (watch for re-flash).

6. For larger fires or if there is any danger, **leave immediately.**
7. Keep doors and windows shut to confine fire as much as possible and reduce the supply of oxygen.
8. If clothing catches fire, **STOP, DROP, ROLL**.
9. Make your way to the ASSEMBLY POINT and report to your leader. The leaders will conduct a role call and report back to the Fire Coordinators.

11.2. On hearing the alarm:

1. Turn off any equipment, which, if left on, may become a source of danger
2. Leave the premises by the shortest **safest** route.
3. Stay low when moving through smoke; walk down to the ground floor and exit.
4. Report immediately to your leader at the correct allocated ASSEMBLY POINT**.** Do not leave the Assembly Point until you have been checked as present and given full instruction to leave the area.
5. Do not return to area until instructed to do so by emergency personnel.

11.3. FIRE IN OFFICE/ ROOM

1. Try to put out fire only if it is small and tame, if not proceed to nearest safe exit
2. Disconnect Electrical connections.
3. Place cloth material around / under door to prevent smoke from entering.
4. Move back. Close as many doors as possible between you and the fire.
5. Be prepared to signal from window but DO NOT BREAK GLASS unless necessary (outside smoke may be drawn in).
6. If caught in smoke, drop to hands and knees and crawl or crouch low with head 15 to 20" above floor, watching the base of the wall as you go.

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7. Hold your breath as much as possible; breathe shallowly through nose using clothing as filter.
8. If forced to advance through flames, hold your breath. Move quickly, covering head and hair.
9. Keep head down and close eyes as often as possible.

11.4. ACTIONS TO BE TAKEN IN CASE OF ELECTROCUTION

On observing victim:

- Call for help.
- Disconnect the current supply immediately.
- Don't touch the electrocuted victim with bare hands.
- If possible, drag the individual or separate him with the help of wooden stick.
- While tackling this accident, make sure you are wearing safety shoes/rubber sole shoes, if not stand on wooden platform or rubber/synthetic mat.
- If victim is breathing keep him as such and call for medical assistance.
- If victim is not breathing, give him artificial breathing.
- Provide resuscitation or artificial breathing device.

11.5. ACTIONS TO BE TAKEN IN CASE OF SPILLAGE OF PETROCHEMICAL/OIL ON SOIL:

- The individual responsible for, or who discovers the petrochemical spillage/Oil spillage (here in after referred as Spillage), shall report the incident to the ERT Team Leader immediately.
- The Team Leader and his team in consultation with the concerned parties will assess the problem and act as required.
- In all cases immediate response is to control /contain the spillage; apply Peat sorbs.
- All the details of the petrochemical/oil spillage and remediation actions shall be recorded.

11.6. VEHICULAR ACCIDENT:

If in any case such as collision of plant and machineries,

- Inform ERT immediately.
- Security Team will be cordoned the area
- Put flagman till the area is cleared.

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If Driver not injured

- Driver if not injured or has sustained minor injury, then the driver shall switch off the engine, open the door, if possible, come out of cabin, if passengers are present, and assess the condition.
- Provide necessary help to prevent further aggravation.
- Help them to come out of vehicle if they are not injured.
- If serious injury is sustained then do not disturb.
- Contact emergency number 999 and give correct information such as your name, company, from where you are speaking, what kind of help you need e.g. ambulance, fire engine etc.,
- Inform local office and other local person on head office.

If any Passenger not injured

- If the passengers have sustained minor injury they should come out of vehicle and check the condition of others.
- Render necessary help to prevent aggravation.
- Do not disturb if driver and other co-passengers are severely injured.
- Communicate to emergency number and local office.
- Wait till medical assistance is obtained.

11.7. MEDICAL EMERGENCY:

11.7.1. Any person witnessing a medical emergency.

- In case of any Medical Emergency, the first person to witness shall warn his subordinates and ask for assistance.
- In case the Medical Emergency is due to an accident, check your own safety before approaching the scene of the accident.
- If you suspect a head or spinal injury, do not move the victim unless there is an immediate life-threatening emergency
- Remove the victim to a safer place in case there is a chance of further injury; else do not touch the victim unless trained to do so.
- If you are an approved First Aider, provide first aid, else wait till a First Aider or the site nurse arrives and provides first aid as appropriate.
- Continue First Aid treatment till the Male Nurse / Medical Team arrives and takes care of the victim.
- Assist the Male Nurse / Safety Team till the Emergency is brought under control.

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11.7.2. Response to Medical Emergency:

- On the confirmation of any Medical Emergency, the First aider will go to the affected area.
- Security team will proceed as well to barricade the area and control the crowd.
- Coordinate with the ERT to control the emergency and seek for assistance in case of multiple injuries (from relevant services,).
- Arrange to restore the affected area.
- Safety team to start an investigation of the incident.

11.8. UNCONSCIOUS/ UNRESPONSIVE

- Call for help.
- Check for breathing. If victim is not breathing, initiate Rescue Breathing.
- The Male Nurse/First Aider (Approved by HAAD and AED Trained) will gently tilt head back to open the airway; watch chest and listen for air from mouth.
- If not breathing, while keeping the victim's head tilted back and chin lifted, pinch the nose and give 2 slow, full breaths. Watch the chest rise and fall during each breath.
- Breathe into the victim's mouth once every 5 seconds until emergency personnel arrive.
- Check for a pulse by gently pressing the side of the victim's neck.
- If no pulse, administer CPR as required. If you don't know CPR, continue with Rescue Breathing.

11.8.1. TO GIVE CPR & EAD: (VICTIM IS NOT BREATHING AND HAS NO PULSE)

- Find the notch where the lower ribs meet the breastbone. Place the heel of your hand on the breastbone. Place your other hand on top of the first.
- Position your shoulders over your hands. Compress 15 times using a smooth, even rhythm.
- Give 2 slow breaths.
- Do three more sets of 15 compressions and 2 breaths.
- Re-check pulse and breathing for about 5 seconds.
- If there is no pulse, continue sets of 15 compressions and 2 breaths.
- Continue until medical assistance arrives or until victim starts breathing and has a pulse.

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11.8.2. Steps for Operating AED:

Note: AED is applicable only on a **pulseless, non-breathing** and **unresponsive** victim.

1. Open the carrying case. **Power on AED**.
    a. Follow the preprogrammed AED prompts as a guide to next steps.
2. **Attach AED pads** to the victim's bare chest. Choose adult pads for victims 8 years of age or older
    a. Peel the backing away from the AED pads.
    b. Attach the adhesive AED pads to the victim's bare chest. Follow the placement diagrams on the pad.
3. "Clear the victim and allow the AED to **analyze** the heart rhythm.
    a. When the AED prompts you, clear the victim during analysis. Be sure that no one is touching the victim, not even the rescuer in charge of giving breaths.
    b. Wait for the AED to finish analyzing victim's heart rhythm.
    c. The AED then tells you if shock is needed.
4. If the AED advises a shock, it will tell you to **clear** the victim and then deliver a shock.
    a. Clear the victim before delivering the shock: be sure that no one is touching the victim.
    b. Loudly state a "clear the victim" message, such as "Everybody clear" or simply "Clear."
    c. Look to be sure that no one is in contact with the victim.
    d. Press the shock button.
    e. The shock will produce a sudden contraction of the victim's muscles.
5. If no shock is needed, and after any shock delivery, **immediately resume CPR**, starting with chest compressions.
6. After about 5 cycles or 2 minutes of CPR, the AED will prompt you to repeat steps 3 and 4.
7. Continue until advanced life support providers take over or the victim begins to breathe, move, or otherwise react.

11.8.3. TO STOP BLEEDING:

- Apply pressure directly onto the wound with a sterile gauze, clean handkerchief or bare hand.
- Maintain a steady pressure for five or ten minutes.
- If victim is bleeding from an arm or a leg, elevate it.
- Stay with victim until help arrives.

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11.8.4. ABDOMINAL THRUSTS FOR CHOKING VICTIM:

- Get behind the victim. Wrap your arms around the person's waist, just above their navel.
- Clasp your hands together in a double fist. **PRESS IN AND UP IN QUICK THRUSTS**.
- Be careful not to exert pressure against the victim's rib cage.
- Repeat procedure until choking stops.

11.8.5. SEVERE INJURIES REQUIRING URGENT MEDICAL TREATMENT

Never move an injured person unless he is in further danger.

If electrical power is involved, do not touch the injured person. Immediately switch off power, and then offer assistance.

Any employee witnessing an accident that threatens human life or massive property damage shall immediately notify his foreman or supervisor, who should:

a) Proceed directly to the accident site.

b) Assign someone to call for medical assistance. Dial "998" for ambulance service and communicate the following:
   i. Location of accident.
   ii. Brief description of the accident
   iii. Number of injured persons.
   iv. Brief description of injuries/condition of injured persons.
   v. Any further relevant information.

c) Assign a second person to notify the HSE Engineer / Safety Officer.

d) Station someone to direct the ambulance to the accident site.

e) Secure the accident area, leaving all equipment, materials and tools in position, as required by law for subsequent investigation of the accident.

f) Have first aiders available for assistance.

11.8.6. ACTIONS TO BE TAKEN IN CASE OF FALL FROM A HIGH POINT

- Alert ERT Team leader immediately.

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- If you suspect a head or spinal injury, do not move the victim unless there is an immediate life-threatening emergency

Action by site supervisor:

- Call for help of first aider who must check whether the injured person is conscious or unconscious.
- Send vehicle / person to call emergency.

Action by first aider:

- Comfort victim and assure confidence that he will be alright.
- Ask for nature and location of injury.
- If any visible swelling or fracture is suspected, do not shift or move the injured person. This case needs professional medical assistance.
- If a bleeding injury is noticed, keep the injured spot elevated from ground and bandage firmly.
- Wait until medical assistance arrives.

11.8.7. TREATMENT OF HEAT EMERGENCIES- HEAT RELATED ILLNESS

In case of Heat Cramps

- Move the person to a cooler place and have him / her rest in a comfortable position.
- Lightly stretch the affected muscle and replenish fluids.
- Give a half glass of cool water every 15 minutes.
- DO NOT give liquids with alcohol or caffeine in them as they can make conditions worse.
- If conditions do worsen Sent him to the nearest hospital
- If Vehicle is not available Ring the Emergency number (Call Ambulance Services 998)

Heat Exhaustion

Signs: Cool, moist, pale or flushed skin; heavy seating; headache; nausea or vomiting; dizziness and exhaustion. Body temperature will be near normal.

- Move the person to a cooler place.
- Remove or loosen tight clothing and apply cool, wet cloths.
- If the person is conscious, give cool water to drink, a half glass every 15 minutes.
- Ensure that the person drinks slowly. DO NOT give liquids that contain alcohol or caffeine.

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- Let the victim rest in a comfortable position and watch for changes in his / her condition.
- If conditions do worsen Sent him to the nearest hospital
- If Vehicle is not available Ring the Emergency number (Call Ambulance Services 998).

Heat Stroke

Signs: Hot, red skin; changes in consciousness; rapid, weak pulse and rapid shallow breathing. Body temperature can be very high – as high as 40 C.

- Heat stroke is a life-threatening situation. Sent causality to the nearest Hospital.
- If Vehicle is not available Call Ambulance Services (998).
- Move the person to a cooler place.
- Attempt to cool the person using cool wet cloths.
- Watch for signs of breathing problems.

If the victim refuses water or is vomiting or there are changes in the level of consciousness do not give anything to eat or drink.

11.9. SEVERE WEATHER AND NATURAL DISASTERS

11.9.1. EARTHQUAKE

- Stay calm, if you are in the office, take cover under a desk and await instructions from the ERT or the designated official.
- Brace yourself in a doorway (hold onto the door to prevent personal injury from the door slamming.)
- If under furniture moves, move along with it.
- Stay away from glass doors and windows, tall shelves, light fittings, filing cabinets, overhead fixtures or objects that might topple.
- If travelling in a lift, stop and get out at the next floors.

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11.9.2. after an earthquake

- Stay calm, stay together. Account for everyone in the work area and immediate vicinity.
- Area Supervisor take control and co-ordinate actions in areas of responsibility and:
  - ✓ Assess all persons for injury.
  - ✓ Check for hazards, fire, gas or chemical leaks.
  - ✓ Move people away from windows and outside walls.
  - ✓ Leave doors to rooms open, pull curtains across broken windows.
  - ✓ Turn off and unplug all unnecessary electrical equipment.

- Do not evacuate unless the building has sustained major structural damage.
- Put signs up identifying dangerous areas.
- Do not use lifts - put signs in the lift lobby.
- Conserve water.
- Do not use the toilets. Make other arrangements that do not involve relying on the sewerage system.
- If communications system has failed, try to pass notes to rescue personnel.
- Assist people with disabilities in finding a safe place.
- Evacuate as instructed by the ERT and / or the designated official.

11.9.3. Sandstorm:

- Once the sandstorm is warned or seen at the working site or office, take appropriate protection to cover from the dust and other effects.
- Wear appropriate mask to protect from dust.
- Leave the open areas where the sandstorm is heavy.
- Take rest in the safe place if the storm is heavy.
- Do not drive vehicle if the visibility is low.
- Put hazard light and park vehicle far away from road side.
- Before you start the vehicle after sandstorm, make sure the road is clear.

11.9.4. Flood:

<u>If indoors:</u>

- Be ready to evacuate as directed by the Emergency Coordinator and / or the designated official.
- Follow the recommended primary or secondary evacuation routes.

<u>If outdoors:</u>

- Climb to high ground and stay there.

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- Avoid walking or driving through flood water.
- If car stalls, abandon it immediately and climb to a higher ground.

11.10. BOMB SCARE

11.10.1. Bomb Threat

- If a bomb threat comes over the phone, listen carefully for distinctive voice traits.
- Note time, date and any background noises.
- Ask when and where it will go off.
- Report the exact message to your supervisor.
- Supervisor to report the threat to the Police immediately (Dial 999).

11.10.2. Suspected Bomb

- Do not touch or handle the suspected bomb.
- Notify your supervisor.
- Supervisor to report to the Police immediately (Dial 999).
- Isolate the area.
- Evacuate when instructed.

11.11. HAZARDOUS SUBSTANCE SPILL

11.11.1. Emergency Response Plan

Elements of an emergency response plan for Chemical Spillage are:

- Pre-emergency planning and coordination with UAE/ADM Fire Dept:
- Personnel roles, lines of authority, training, and communication.
- Emergency recognition and prevention.
- Safe distances and places of refuge.
- Security and control.
- Evacuation routes and procedures.
- Decontamination.
- Emergency medical treatment and first aid.
- Emergency alerting and response procedures.
- Critique of response and follow-up
- PPE and emergency equipment

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11.11.2. Individual Responsibilities

- Become familiar with the hazards of chemical products before using them.
- Use preventive measures to minimize the likelihood of spills, such as using secondary containers when transporting chemicals and placing absorbent materials on work surfaces.
- Receive training, as needed.
- Assess the need for spill control materials.
- Assist in developing spill response plans.
- Clean up small spills properly.
- Report all spills to supervisor or Safety Officer

Facility information describes key elements of the facility that is useful for new employees and response agencies, such as Civil Defense.

Employees must know how to report an emergency. This may include the activation of pull alarms or notifying the facility security center. Consideration must be given to methods of notifying local agencies such as the Civil Defense.

Alarms and signals to alert employees must be identified; this may include audio alarms, highly visible lights, and/or a public address system. Management and employees must know what actions to take when an emergency alarm is activated.

All emergency phone numbers should be identified, listed in the emergency preparedness plan, and posted. Emergency phone numbers should include any facility numbers, local agencies, and any emergency-facility personnel. Consideration should also be given to recovery of operations.
All responsibilities should be clearly defined for management and employees. Management must determine its strategy for responding to fire emergencies.

A chain of command should be established to minimize any confusion. Personnel must be identified to coordinate the emergency-response actions.

Individuals working with chemicals should consider the following items to prepare themselves for spill control and clean-up:

- Review Material Safety Data Sheets or other references for recommended spill clean-up methods and materials, and the need for personal protective equipment (e.g., respirators, gloves, etc.).

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- Acquire sufficient quantities and types of spill control materials to contain any spills than can be reasonably anticipated.
- Acquire recommended personal protective equipment and training in its proper use.
- Place spill control materials in a readily accessible location, close to the areas where chemicals are used or stored.

11.11.3. General Guideline for Cleaning Up Chemical Spills

1. Immediately alert others in the area and the supervisor, and evacuate the area, if necessary.
2. Attend to any persons who may be contaminated. Contaminated clothing must be removed immediately and the skin flushed with water for no less than fifteen minutes. Clothing must be laundered before reuse.
3. If a volatile, flammable material is spilled, immediately warn others in the area, control sources of ignition, and ventilate the area.
4. Wear personal protective equipment, as appropriate to the hazards. Refer to the Material Safety Data Sheet or other references available for information.
5. If the spill is a MAJOR one, if there has been a release to the environment, or if assistance is needed, contact the Civil Defense
6. Consider the need for respiratory protection. The use of a respirator or self-contained breathing apparatus requires specialized training and medical surveillance. Never enter a contaminated atmosphere without protection or use a respirator without training. If respiratory protection is available, be sure there is another person outside the spill area in communication or in sight, in case of emergency.
7. Protect floor drains or other means for environmental release. Spill socks and absorbents may be placed around drains, as needed.
8. Loose spill control materials should be distributed over the entire spill area, working from the outside, circling to the center. This reduces the chance of splash or spreading of the spilled chemical.
9. When the spilled materials have been absorbed, use a brush and scoop (spark-resistant if flammable materials are involved) to place materials in an appropriate container. Polyethylene bags may be used for small spills.
10. Complete a hazardous waste tag, identifying the material as Spill Debris involving XYZ Chemical, and affix the sticker to the container or bag. Remember the use of an absorbent does not alter the chemical properties of the chemical. Contact the Hazardous Waste Manager for advice on storage and packaging for disposal.
11. Place the container in a hood or other properly ventilated area until the next chemical waste pick-up.
12. Decontaminate surfaces involved in the spill using a mild detergent and water, as appropriate.

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13. Replenish spill control materials.

11.12. Workplace Violence

HBC has a policy of zero tolerance for violence. Employees who engage in any violence in the workplace, or threaten violence in the workplace, will be terminated immediately for cause. No talk of violence or joking about violence will be tolerated. Appropriate disciplinary action, up to and including termination, will be taken against any employee who violates this policy.

What you need to do.

- Awareness training of workplace violence
- Prevention policy and program
- Laws and regulation covering violence.
- Incident reporting procedures
- Risk Assessment of Workplace violence
- Emergency Response Team awareness of workplace violence

11.13. Traffic accident (Public vehicle hitting site fence)

If in any case such as traffic accident involvement of public vehicle in hitting site fence

- Inform ERT immediately.
- Security Team will be cordoned the area.
- Put flagman till the area is cleared.

If Driver not injured

- Driver if not injured or has sustained minor injury, then the driver shall switch off the engine, open the door, if possible, come out of cabin, if passengers are present, and assess the condition.
- Provide necessary help to prevent further aggravation.
- Help them to come out of vehicle if they are not injured.
- If serious injury is sustained, then do not disturb.
- Contact emergency number 999 and give correct information such as your name, company, from where you are speaking, what kind of help you need e.g. ambulance, fire engine etc.,
- Inform local office and other local person on head office.
- Render necessary help to prevent aggravation.

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- Communicate to emergency number and local office.
- Wait till medical assistance is obtained.
- Conduct traffic damage reports.

11.14. Damage to underground services

When underground cables are damaged, people can be killed and injured by electric shock, electrical arcs (causing an explosion), and flames. This often results in severe burns to hands, face, and body, even if protective clothing is being worn.

Damage can be caused when a cable is:

- cut through by a sharp object such as the point of a tool; or
- crushed by a heavy object or powerful machine.
-

Cables that have been previously damaged but left unreported and unrepaired can cause incidents.

What you need to do

If you are digging or disturbing the earth, you should take care to avoid damaging underground services. Underground electrical cables can be particularly hazardous because they often look like pipes, and it is impossible to tell if they are live just by looking at them.

Damage to underground electrical cables can cause fatal or severe injury and the law says you must take precautions to avoid danger.

Excavation work should be properly managed to control risks, including:

- Planning the work
- Using cable plans
- Cable location devices
- Safe Digging practices

What to do in Emergency

- First Aid and rescue procedure must be initiated as soon as practicable in an emergency.
- Contact Emergency Response Team & Services

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11.15. Excavation collapse

Cave-ins and collapses generally occur because of unstable soil conditions combined with improper or inadequate shoring. The potential for additional collapse must always be considered as primary hazard and personnel must be aware that any action may disrupt the temporary stability and cause an additional collapse. The temporary stability, at any point in an operation, may be disturbed by removing soil or debris, by adding weight near the edge of an open cut, by vibration (such as vehicle movement), rain, or simply by the passage of time.

What to do in Emergency

- First Aid and rescue procedure must be initiated from outside the collapse space as soon as practicable in an emergency.
- Contact Emergency Response Team & Services

Emergency Description:

- Person or person have been trapped in an excavation collapse.
- Note number and location victims.
- Note approximately how many meters below the ground.
- State if person is conscious.
- State if access to area adjacent the collapse is accessible.
- Remain Calm

11.16. Confined space emergency

The following procedure shall be observed under any of the following conditions:

Testing demonstrates the existence of dangerous or deficient conditions and additional ventilation cannot reduce concentrations to safe levels.

The atmosphere tests as safe but unsafe conditions can reasonably be expected to develop.

It is not feasible to provide for ready exit from spaces equipped with automatic fire suppression systems and it is not practical or safe to deactivate such systems; or

An emergency exists and it is not feasible to wait for pre-entry procedures to take effect.

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- All personnel must be trained. At least one worker shall stand by the outside of the space ready to give assistance in case of emergency. The standby worker shall have a self-contained breathing apparatus available for immediate use. There shall be at least one additional worker within sight or call of the standby worker. Continuous communications shall be maintained between the worker within the confined space and standby personnel.
- If at any time there is any questionable action or non- movement by the worker inside, a verbal check will be made. If there is no response, the worker will be moved immediately. Exception: If the worker is disabled due to falling or impact, he/she shall not be removed from the confined space unless there is immediate danger to his/her life. Local fire department rescue personnel shall be notified immediately. The standby worker may only enter the confined space in case of an emergency (wearing the self-contained breathing apparatus) and only after being relieved by another worker. Safety belt or harness with attached lifeline shall be used by all workers entering the space with the free end of the line secured outside the entry opening. The standby worker shall attempt to remove a disabled worker via his lifeline before entering the space.

- When practical, if entry is through a top opening, the safety harness shall suspend a person upright and a hoisting device or similar apparatus shall be available for lifting workers out of the space.

- Continuous gas monitoring shall be performed during all confined space operations.

Prior To A Rescue Team Entering Confined Space

- Ensure that rescue plan has been completed and copy will be available at work site.
- Confirm that an adequate number of rescue team members are available to responds to an emergency.
- Ensure that confined space pre-task briefing form, the confined space entry permit, standard confined space entry procedures for the confined space in questions are reviewed with entrants, attendants, and the rescue team.
- Ensure that rescue equipment is at the site and set-up.

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- Ensure entrants wear full body harness connected to an appropriate length of lanyard or winch cable
- Ensure rescuers are attached to a retrieval line prior to entering the confined space.
- Ensure that all employees involved in the confined space entry including the rescue team understand what type of communication will be used and how special signals will work.
- Ensure that all entrants and rescuers understand how, and evacuation will be initiated.
- Ensure an alternate competent attendant is appointed if the attendant that was working with the entrants is unable to perform the attendants' duties during a rescue.
- Check the atmospheric conditions to determine if respirators or supplied oxygen are required.
- Confirm that all communication equipment working.
- Ensure that attendant is in place outside the entry point to assist the rescue team.
- Prepare the Entrants for extraction. This may require the use of stretchers etc.
- Have the attendant operate the winching system to help remove the entrants from the confined space.
- Rescuer must ensure the safety of the injured Entrants during the extraction procedure.
- Once outside the confined space, provide any additional first aid required to stabilize the Entrants until ambulance arrived.
- Secure are and ensure that no one enters the confined space until it has been re-assessed and deemed safe to enter.

11.17. Working at Height

To ensure that all work at height is properly planned and carried out in such a manner to ensure the safety of personnel involved in working in any place at height, including a place at or below ground level. To ensure that only suitably trained persons work at height Within HBC.

11.18 Collapse of lifting equipment's

In the event of a lifting equipment collapse, HBC immediately stop all operations and evacuate personnel from the danger zone. Ensure the load is stable, if possible, without

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putting anyone at risk. Isolate the area by shutting down power or hydraulic systems and securing it with barriers or warning signs. Notify the emergency response team and site supervisor at once. Assess for hazards such as falling debris, structural damage, or fuel leaks. Begin incident documentation and proceed with recovery or repairs only after the area has been inspected and declared safe by competent personnel

Rescue equipment refers to specialized tools and devices used to safely assist, extricate, or protect individuals during emergencies. This may include personal protective equipment (PPE) such as helmets, gloves, and harnesses; lifting and cutting tools like hydraulic spreaders and cutters; retrieval systems such as tripods and winches; and life-saving gear like stretchers, rescue ropes, flotation devices, and first aid kits. The selection and readiness of rescue equipment are critical to ensuring a timely, effective, and safe emergency response.

Emergency Preparedness and Response

- Providing a rapid and effective rescue where employees working at height have activated fall protection system, rescue equipment shall be available to retrieve employees as any delay might have severe consequences.
- Providing first aid response to employees who have been rescued from the height to prevent possible suspension trauma.
- Appointing emergency response personnel who can take charge and make decisions and liaise with emergency services.
- Employees are trained in emergency response, including information of first aid arrangements and where first-aiders, first aid equipment and facilities are located.
- Employees are appointed as first-aiders are available at each location.
- Standby Mobile elevated working platform (MEWP) – A powered working platform, designed to help people to carry out work at height in safe manner.

12. EMERGENCY CONTROL CENTRE

SITE OFFICE is identified as the **"EMERGENCY CONTROL CENTER"**

The "EMERGENCY CONTROL CENTRE" should be equipped with the following: -

- A copy of the location map/plot plan of the work site showing locations of various units at the site and emergency evacuation plan should be displayed at various places on site and office.
- Emergency response system shall be posted at various places on site and offices.
- A list of important telephone numbers e.g. Fire Brigade, Hospital, Ambulance, Police, etc;
- Current, updated list of Contact numbers of each Emergency Control Team Member.

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13. EMERGENCY EVACUATION AND ASSEMBLY POINT

A continuous siren will be sounded. When the siren is sounded you must

- Assemble near assembly point, walk calmly and don not run.
- Foremen to take charge of team and report to the ERT Administrator.
- Do not stop to collect personal belongings,
- Turn Off generators, Compressors, and other power equipment.
- Provide power for emergency services.
- Turn off all heat producing equipment and shut cylinder valves if any, Attack fire with the equipment provided, if it is safe to do so.
- Obey the instructions of the ERT personnel.

Administrator staff will be available at the Assembly points to verify that all Employees have been evacuated and to give further instructions. Do not re-enter the site until the all-clear siren is given / until you are told that it is safe to do so.

14. EMERGENCY CONTROL MOCK DRILL / TRIAL EXERCISE

With a view to test the efficacy / effectiveness of the Emergency Plan, it will be helpful if the plan is tested during a pre-planned mock exercise. Such an exercise will help in reinforcing confidence on the level of preparedness to Meet any contingency, identify weaknesses during the implementation so that the Plan could be revised / updated. Such a mock exercise could be conducted once in 6 months.

15. Emergency Contact Numbers Including Night Shift

Role	Contact Name	Contact Number
Ambulance		998
Fire		997
Police		999
HBC Emergency Contact Details		
Emergency Controller	Mr. Damodhar Zamuni	056-8287679
Project Manager	Mr. Jiries Hani Oweis	055-6273665
Construction Manager	Mr. M Ibrahim	056-8286965
HSE Engineer	Mr. Damodhar Zamuni	056-8287679
Fire Coordinator	Mr. Sandip Kumar	058 2429396
Site Logistic Manager	Mr.Khaldoun	056-1466191
Night Shift HBC Emergency Contact Details		
QA / QC Engineer	Mr.Moustafa Mahmoud	054-7411088
HSE Officer	Mr.Lutfullah Khan	052-7675227
Civil Foreman	Mr.Santosh Sharam	058-8740835

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Abu Dhabi Municipality (ADM)	Emergency Number	993

16.Emergency Scenarios and Rescue Arrangements for Tower Crane Operations

1. Potential Emergency Scenarios

1. **Medical Emergency at Height**
   - Crane operator, rigger, or maintenance personnel suffers sudden illness or injury while in the cab or on the crane structure.
2. **Crane Mechanical Failure**
   - Jib, trolley, hoist, or slewing mechanism failure leading to unsafe positioning of load or boom.
3. **Loss of Power**
   - Electrical outage leaving the crane inoperable with suspended load.
4. **Extreme Weather Events**
   - Sudden high winds, lightning, or storms requiring immediate crane shutdown and evacuation.
5. **Load Collision or Falling Load**
   - Impact with building, scaffolding, or another crane; dropped load posing danger to personnel below.
6. **Structural Damage**
   - Mast, jib, or tie-in failure due to overload, corrosion, or impact.
7. **Fire on Crane**
   - Electrical fire in cab or machinery deck, or fire from nearby structures spreading to crane.
8. **Entrapment**
   - Personnel trapped in cab or on crane due to structural deformation, debris, or mechanical jam.
9. **Nearby Incident**
   - Explosion, hazardous material release, or other site emergencies requiring rapid evacuation.

2. Rescue Arrangements

A. General Principles

- Rescue must be **planned in advance**, rehearsed, and documented in the **Rescue Plan**.
- Rescue teams must be **trained, competent, and equipped** for working at height and rope access where required.
- Time is critical — target rescue completion within **10 minutes for suspension trauma risk**.

B. Rescue Equipment

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- **Fall arrest and rope access gear**: Harnesses, lanyards, rescue winches, self-retracting lifelines (SRLs).
- **Rescue stretcher** suitable for vertical and horizontal lifting.
- **Communication devices**: Two-way radios with dedicated emergency channel.
- **Emergency descent device**: Manual or powered lowering systems for operator evacuation.
- **First aid kits** at base and on crane.
- **Fire extinguisher** in cab and machinery deck.

C. Rescue Methods

1. **Medical Emergency at Height**
    - Alert site emergency coordinator immediately.
    - Access cab via ladder or lift.
    - Secure casualty with fall protection.
    - Use rope rescue or crane-integrated descent device to lower casualty to ground.
    - Hand over to first aid/ambulance services.
2. **Mechanical Failure / Load Stuck**
    - Cease operations, secure load if possible.
    - Engage backup power or manual lowering system.
    - If load cannot be lowered, establish exclusion zone beneath until resolved.
3. **Fire on Crane**
    - Evacuate operator via ladder/descent device — avoid lift if smoke present.
    - Use extinguisher if safe; otherwise retreat and alert fire brigade.
    - Isolate electrical systems.
4. **Extreme Weather**
    - Cease operations, park crane in weathervane mode.
    - Evacuate personnel in accordance with site wind action plan.
5. **Structural Damage**
    - Evacuate crane immediately, restrict access to danger zone.
    - Contact crane engineer and safety authority.

D. Roles and Responsibilities

- **Crane Operator**: Initiate emergency stop, report incident, assist in self-rescue if able.
- **Appointed Person / Lift Supervisor**: Activate rescue plan, coordinate emergency services.
- **Rescue Team**: Execute technical rescue using trained methods.
- **Site Safety Officer**: Ensure exclusion zones, record incident, conduct investigation.

E. Communication Protocol

- Dedicated emergency channel on radios.
- Clear chain of command for emergency calls.

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- Liaise with **local emergency services** in advance, providing crane height, location, and access points.

F. Training & Drills

- All rescue team members to receive **tower crane-specific rescue training**.
- Drills to be conducted **quarterly** simulating different scenarios (medical, mechanical, fire).
- Keep **records of drills** and update plan after each exercise.

Emergency Resources for Tower Crane Operations Project

1. Emergency Rescue Equipment

- **Full body safety harnesses** available at site
- **Fall arrest lanyards** with shock absorbers status to be arrangements
- **Self-retracting lifelines (SRLs)** for vertical access
- **Rope rescue kits** (static rope, pulleys, descenders, ascenders)
- **Rescue tripod and winch** (for confined or restricted areas)
- **Evacuation/descent devices** (automatic controlled descent systems) status to be arrangements
- **Rescue stretchers** (basket stretcher or spinal board) with lifting straps
- **First aid kits** (base of crane and in cab)
- **Wheelchair** for casualty care
- **Two-way radios** with dedicated emergency channel
- **High-visibility PPE** (vests, helmets, gloves)

2. Fire-Fighting Equipment

- **Portable fire extinguishers**:
  - CO_2 type (for electrical fires in cab/machinery deck)
  - Dry powder type (for mixed fire risks)
- **Fire blankets** (cab and base of crane)
- **Fire hose reel** (if connected to site water supply)
- **Smoke detector** in cab/machinery housing
- **Emergency lighting** for evacuation routes

3. Communication & Alert Systems

- **Two-way radios** with emergency call function
- **Air horn or site alarm system** for mass alert
- **Mobile phones** with emergency service numbers pre-programmed
- **Emergency contact list** (displayed in crane cab and at crane base)
- **Site public address (PA) system**

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4. Site Medical Support

- **Trained first aiders** on site during crane operation
- **First aid room** or designated medical station available
- **Oxygen therapy kit** (if site medical plan requires) status to be arrangements
- **AED (Automated External Defibrillator) status** to be arrangements
- **Emergency vehicle access route** kept clear at all times **status** to be arrangements

5. Access & Evacuation Support

- **Safe access ladders** with intermediate rest platforms
- **Fixed guardrails** and anchor points for fall protection
- **Temporary lighting** for night operations or poor visibility
- **Clear evacuation signage** from crane to muster points

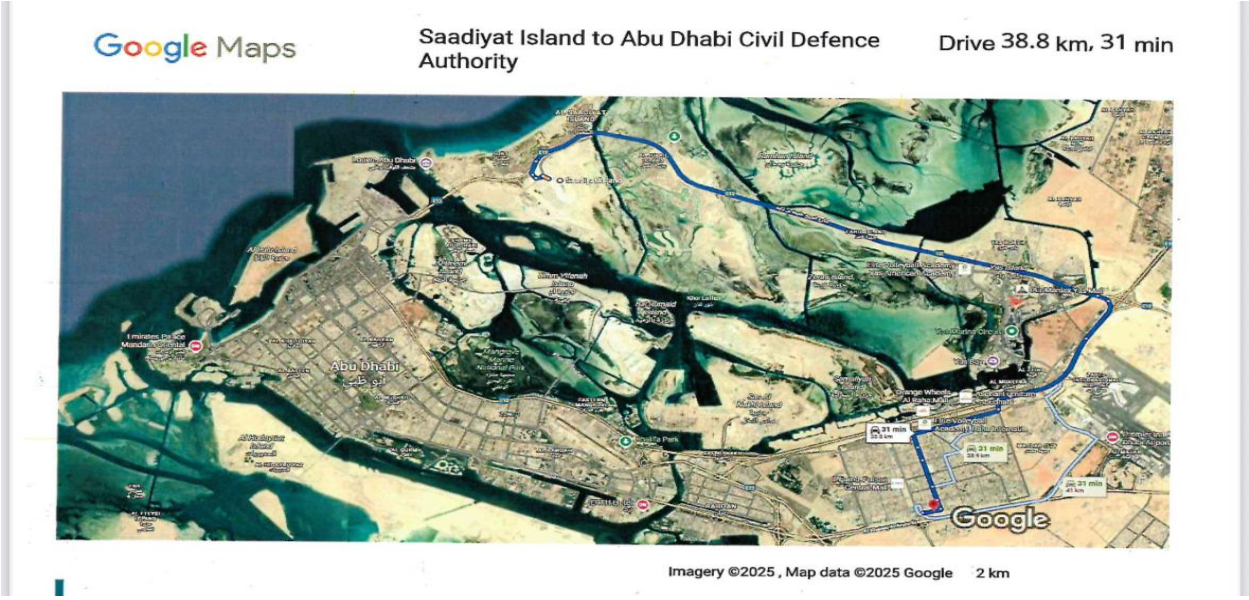
17.Health Plus Family Clinic – Saadiyat Island (Abu Dhabi)

- **Address:** Service Building C8, SDN1, Saadiyat Island, Abu Dhabi, UAE
- **Emergency Contact No:** +971 600 503 035
- **ADCDA Emergency Contact No: 022036666**

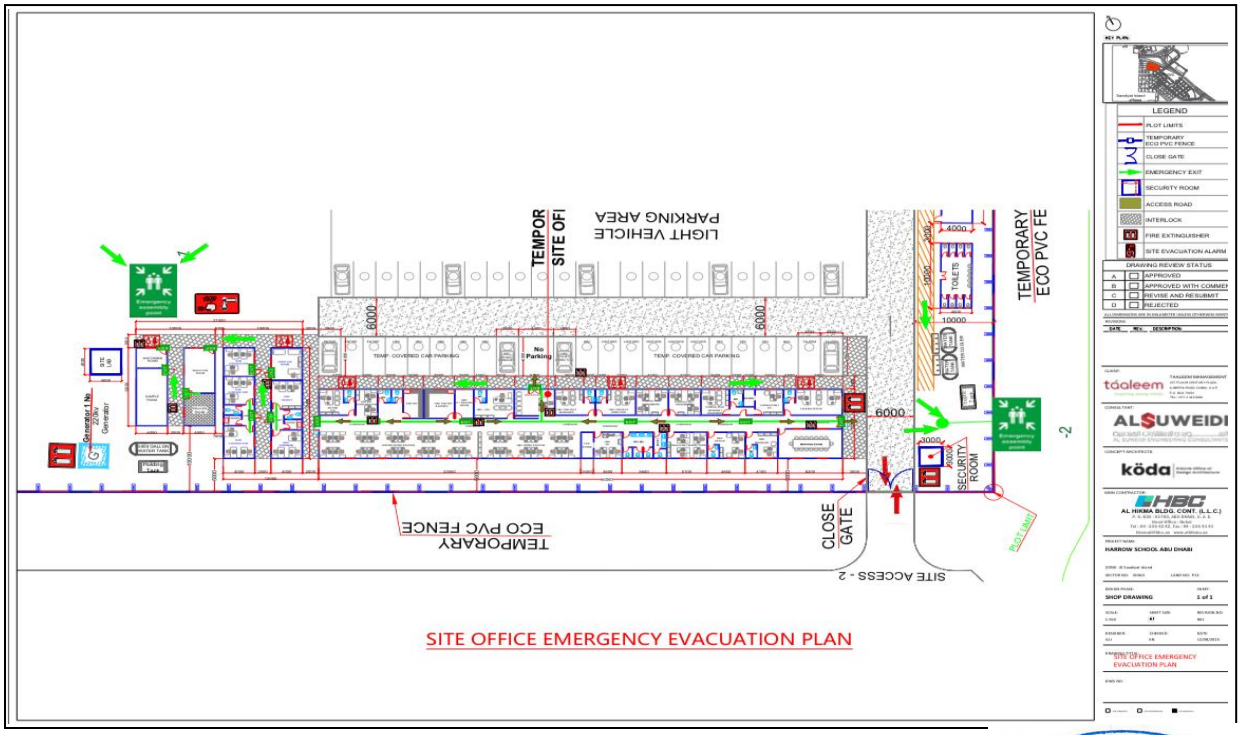


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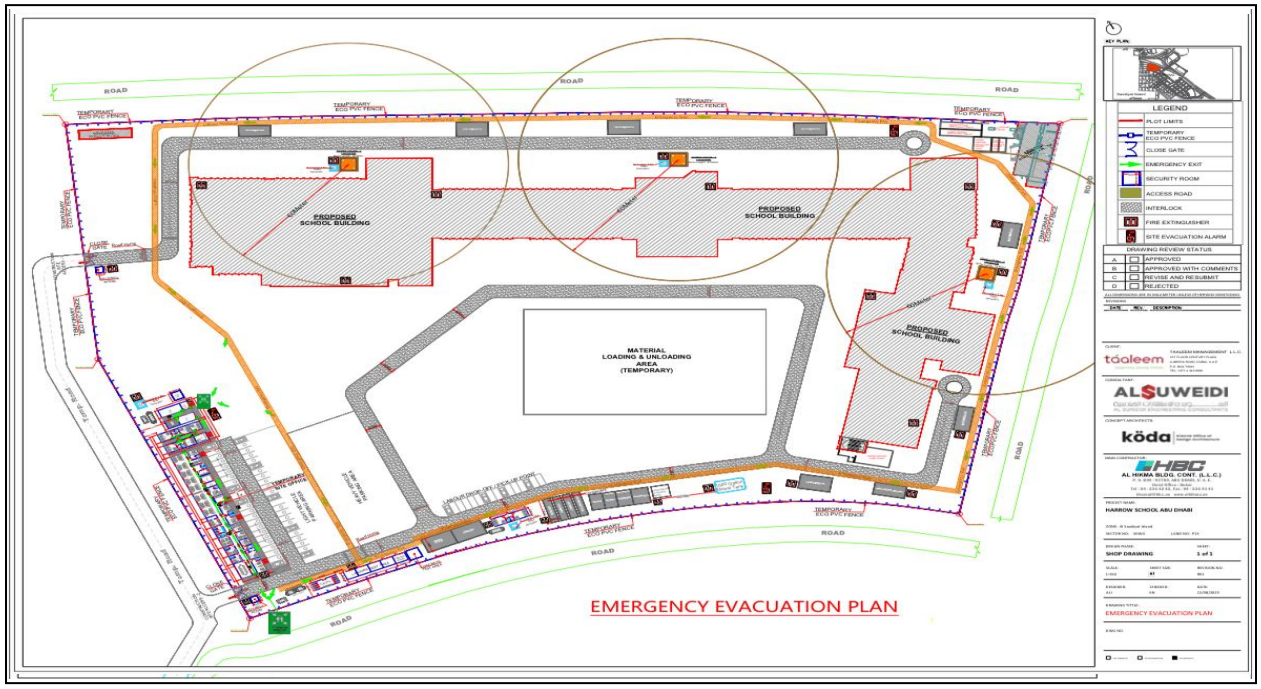


Appendix A. Evacuation Emergency Plan (Site Office and Project sites)



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This Fire Emergency Evacuation Plan is currently under preparation.
Once finalized, it will be attached to the **Emergency Response Plan** for full implementation and reference.

In the meantime, follow these interim fire safety steps:

1. **Raise the Alarm** – Activate the nearest fire alarm or shout "FIRE."
2. **Call Emergency Services** – Dial **997** and provide location and details.
3. **Evacuate Safely** – Use nearest safe exit; do not use lifts.
4. **Proceed to Assembly Point** – Move to the designated safe area.
5. **Assist if Safe** – Help others without putting yourself at risk.
6. **Wait for Clearance** – Do not re-enter until authorized by Fire Services.

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APPENDIX B. SITE EMERGENCY PROCEDURE



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Appendix D. First Aider & Fire Marshal

S.NO	NAME	TITLE	CONTACT NO.
1	Sandip Kumar Gupta	Fire Warden	054-7315235
2	Banwari Lal Bairwa	Fire Warden	054-5110938
3	Rajendra Bairwa	Fire Warden	050-5271732
4	Deepak Kumar	Fire Warden	050-3953392
5	Raju Ahmed	Fire Warden	052-2037244
6	Kannaiya Kumar	Fire Warden	052-8075984
7	Seraj Ahamad	Fire Warden	056-2755954
8	Imtiyaz Alam	Fire Warden	052-8041682
9	Shoukath Ali Pullot	Fire Warden	050-6409450
10	Jitendra Kumar	Fire Warden	052-8859657
11	Manimaran Vellaichamy	Fire Warden	055-5374905

S.NO	NAME	TITLE	CONTACT NO.
1	Damodhar Zamuni	First Aider	056-8287679
2	Mubarak	First Aider	056-3834365
3	TBA	Nurse/First Aider	
4	Sandip Kumar Gupta	First Aider	052-8149740

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RAJU AHMAD MD ABDUL ZABBER

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KANHAIYA KUMAR SHAMBHU PRASAD

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Ambulance

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Highfield Qualifications

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Damodhar Durgappa Zamuni

has successfully passed an assessment in

Highfield Level 3 International Award in Emergency First Aid at Work

Date of Assessment 14 October 2024

Date of award 14 October 2024

Certificate number FA8395799

DCAS Permit No T15011

Proactive Excel Safety Consultancy

Course Director

Training Organisation

This certificate is valid for 3 years from the date of award.
In accordance with Trakhees regulations, this certificate is valid for 2 years from date of award.

Richard Sprenger, Chairman
Highfield Qualifications

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EJAWAS MUBARAK AHAMED KAMAL AHAMED KAMAL

Dear EJAWAS

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To download the digital student book for this class or to complete a short evaluation of your class and instructor, please go to www.hsi.com/passport and register using the following number: 203477

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EJAWAS MUBARAK AHAMED KAMAL

has demonstrated achievement of the required knowledge and hands-on skill evaluation(s) according to the certification requirements of the training program indicated below.

ADULT FIRST AID

C008720F5

SAHAL KHALEEL AHAMED
Authorized Instructor (Print Name)

4419346
Registry No.

8/25/2025	**8/2027**
Class Completion Date	Expiration Date
0097143354633	**4419501**
Training Center Phone No.	Training Center I.D.

This Adult First Aid training program conforms with the 2020 American Heart Association and American Red Cross Focused Update for First Aid. This training program was not designed to meet pediatric first aid training requirements and should not be used for that purpose.

Expiration date may not exceed two years from month of class completion.

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SANDIP KUMAR GUPTA MOTICHAND SAH

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ADULT FIRST AID C0086325C

SAHAL KHALEEL AHAMED
Authorized Instructor (Print Name)

4419346
Registry No.

Class Completion Date	Expiration Date
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