

SAFETY MANAGEMENT SYSTEM





Construction Industry Sectorial Safety Management System

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The policy shall be understood, implemented and maintained at all levels of the organization; The policy shall be communicated to all employees in languages understood by them to make them aware of their OH&S obligations;

The policy shall be reviewed at least once a year to ensure it remains relevant and appropriate to the organization.

The Company Believes in:

- A. Providing safe and healthy working environment for all employees.
- B. Safety of employees will be the first consideration in the operation of the business
- C. Ensure that each employee is adequately trained and familiarise the relevant statutory requirements, codes of practices and the company's safety procedures/ standards in order to carry out his work safety.
- D. Taking steps to ensure that safety messages are disseminated to all employees, subcontractors as well as all visitors, vendors who are at the work place.
- E. Each employee should take personal responsibility to prevent injury to himself as well as to his fellow colleague.

~ It is the responsibilities of all managers and employees to carry out this policy effectively. All works will be carried out in accordance with the standards stated in this manual.~

REGARDS,

AUNG THAN KYI

CHIEF ENGINEER

1. SAFETY STANDARD

Industry

: Building Construction Industry

Safety Management Descriptor : This unit covers the outcomes required to comply with regulatory and organizational requirements for occupational health and safety

Safety Management Elements

This Safety Management consists of the following elements:

Element 1: Follow safe work practices

Element 2. Evaluate hazards and risks

Element 3. Follow emergency procedures

Safety Management Element 1

Follow safe work practices

Essential Knowledge

A competent individual needs to know and understand the following:-

- 1. Safety regulations and laws
- 2. Safety signs and symbols and Personal Protective Equipment(PPE)
- **3.** The emergency procedures

Performance Criteria

A competent individual must be able to successfully perform the following:

1.1 Follow *Safety regulations* and workplace safety and hazard control practices and procedures based on organization procedures

1.2 Identify *hazards/risks* in the workplace and their corresponding indicators to minimize or eliminate risk to co-workers, workplace and environment in accordance with organization procedures

1.3 Perform to comply with contingency measures during the events of workplace accidents, fire and other emergencies in accordance with organization procedures

Safety Management Element 2

Evaluate hazards and risks

Essential Knowledge

A competent individual needs to know and understand the following:-

- **1.** Various site hazards
- **2.** Safety and health procedures

Performance Criteria

A competent individual must be able to successfully perform the following:

- **2.1** Identify maximum tolerable limits of contaminants based on threshold limit values (TLV) which when exceeded will result in harm or damage to health
- **2.2** Determine effects of the hazards.
- **2.3** Report OHS issues or concerns and identified workplace hazards are to designated personnel in accordance with workplace requirements and relevant OHS legislation

Safety Management Element 3

Control hazards and risks

Essential Knowledge

A competent individual needs to know and understand the following:-

- **1.** Accidents which may happen
- 2. Correct use of PPE
- **3**. Under the permit to work system

Performance Criteria

A competent individual must be able to successfully perform the following:

3.1 Follow consistently Occupational Health and Safety (OHS) procedures for controlling

Hazards/risks in workplace.

- **3.2** Follow procedures for dealing with workplace accidents, fire and emergencies in accordance with organization OHS policies
- **3.3** Use *Personal Protective Equipment (PPE*) correctly in accordance with organization's OHS procedures and practices
- **3.4** Provide appropriate assistance in the event of a workplace emergency in accordance with established organization protocol

Evidence for Assessment

Evidence may be collected through assessment methods such as:

- Knowledge of the safety and healthy standards
- Knowledge of bored piling site's standard instructions

Range and Context

Tasks to be performed may include:

- Waste management statutes and rules
- National Electrical and Fire Safety Codes
- Evacuation
- Isolation
- Check the calibrate of tools, equipment and materials for working conditions may include:
- Use with good brand tools, equipment
- Sign in professional recommendations
- Prevention and control measurement
- Work instructions
- Measurement units
- Checking of tools and equipment
- Foundation form works,
- Standard handling for all use standard on major specification for operation
- Brand and expire date
- Specification
- use power source
- To be exact
- Follow the shop drawing
- Building construction code(Myanmar)

Hazards related to Foundation making may include;-but not limited to;

• Physical hazards, electrical hazard, and falling hazards

Risk control measures may include: but not limited to;

- Precaution hazards (lower dawn Tremie Pipe)
- Life line
- Barricade
- PPE(Safety Belt, Harness, Head protection, Hand glass)

signs

- guarding
- Mask
- Gloves

Setup work area for piling work may include ⊗....reconsider;

- Safety work place
- Unsafe work place
- Activate
- Housekeeping

Tools, Equipment & Materials(hand tools)

Foundation work may include:

• Piling equipments, steel plates, chisels, boring bucket, hammers, other tools

Organisational Procedures

• Method of statements, code of practices issued by Building Construction, directives

Under recommended skills

- Skilful in identifying the required safe work procedure.
- Following work instructions
- Skilful in practice of bored piling works

2. COMPANY'S OH AND SAFETY POLICY STATEMENT

A. Planning

1 Planning for hazard identification, risk assessment and risk control

1.1 Methodology

- Step 1 Breakdown of the job into different work activity
- Step 2 Identify the hazards associated with each process of the work activity
- Step 3 Evaluate the risks of the hazards, taking into account the likelihood of occurrence, and the potential severity of consequences of injury or damage
- Step 4 Decide if the level of risk reduction is sufficient, if not, propose further measures to control or to reduce the risk levels
- Step 5 Implement the developed control measures

To manage the above-identified hazards, which are intolerable, **appropriate control measures shall be developed and implemented** which may include but not limited to the followings:

- Elimination (refers to the total removal of the hazards)
- Substitution (this involves replacing the hazard by one that presents a lower risk)
- Engineering controls (e.g. barriers of open edges, guarding of moving parts of machinery, proper working platforms, shoring of excavations)
- Administrative controls (e.g. attendance of competent persons such as professional engineers, fire watchers, lifting supervisors, rigger & signalmen, regular maintenance and inspections etc...)
- **Personal Protective Equipment** (e.g. safety helmets, eye protectors, hearing protectors, dust masks, respirators, safety belts / harnesses, safety shoes, hand protection etc...)
- Step 6 To review the hazard identification, risk assessment and risk controls at least once every 3 years or depending on the following considerations:
 - · the nature of the hazard
 - · the magnitude of the risk
 - · changes from normal operation
 - after every incident/accident
 - changes of WSH legal and other requirements.

B. Implementation and Operation

1 Structure and Responsibility

- **1.1** Director is responsible for the overall implementation of the OH&S Management System.
- 1.2 Everybody hold the ownership of safety outcome
- **1.3** The OH&S responsibilities of management and line personnel are stated as follows:

A. PROJECT MANAGER

- a. Overall in charge of Occupational, Health And Safety Management in the Company
- b. To implement the Company Occupational, Health And Safety Management System, Safety Programmed and Procedures
- c. Review and update Safety Policy

B. PROJECT ENGINEER

- a. To lead in implementation of company's safety management and policy
- b. Familiarize himself with all Statutory Regulations, Company's Occupational Health And Safety Management System and Code of Practice are implemented and ensure its effective application.
- c. Ensure safety is planned into all operations, review all working methods and process, both new and existing to see that all safety precautions are met.
- d. Take prompt corrective actions to remove any unsafe or unhealthy work conditions and to maintain effectively such corrections made.
- e. To review safety issues and recommendations for improvement of safety.
- f. Authorizes safety expenditures.

C. SITE MANAGER

- a. To lead and In charge of Safety and Health at the site
- b. Familiarize himself with all Statutory Regulations, Company's Occupational Health And Safety Management System and Code of Practice are implemented and ensure its effective application.
- c. Chairman of Site Safety Committee (if Applicable)
- d. Ensure safety is planned into all operations, review all working methods and process, both new and existing to see that all safety precautions are met.
- e. Review any new or changes in processes, equipment and assessment of the hazards.
- f. Take prompt corrective actions to remove any unsafe or unhealthy work conditions and to maintain effectively such corrections made.
- g. Submit procedures on safety equipment and plants.
- h. Liaise with all authorities on safety matters.

D. SITE ENGINEER

- a. Familiarize himself with all Statutory Regulations, Company's Occupational Health And Safety Management System and Code of Practice are implemented and ensure its effective application.
- b. Review any new or changes in processes, equipment and assessment of the hazards.
- c. Establish and maintain a programmed for the identification and assessment of hazards.
- d. Assist in the investigation of every serious or fatal accident and dangerous occurrence and recommend preventive measures.
- e. Take prompt corrective actions to remove any unsafe or unhealthy work conditions and to maintain effectively such corrections made.

E. ASSISTANCE MANAGER

- a. Familiarize himself with all Statutory Regulations, Company's Occupational Health And Safety Management System and Code of Practice are implemented and ensure its effective application.
- b. Review any new or changes in processes, equipment and assessment of the hazards.
- c. Establish and maintain a programmed for the identification and assessment of hazards.
- d. Ensure safety is planned into all operations, review all working methods and process, both new and existing to see that all safety precautions are met.
- e. Take prompt corrective actions to remove any unsafe or unhealthy work conditions and to maintain effectively such corrections made.
- f. Liaise with all authorities on safety matters.
- g. To lead and In charge of Safety and Health at the site
- h. Ensure that SWP & RA established was communicated to the workers prior to commencement of work.
- i. To ensure First-day Safety Induction are conducted for all work personnel on site and keep records.

F. WORKPLACE SAFETY AND HEALTH OFFICERS

- a. Responsible for advising the management team on the safety requirements of worksite.
- b. Application of safety procedure to all work operations
- c. Advice on legal requirements pertaining to safety & health matters.
- d. Advice on the suitability on the use of PPE .plants and equipment with the appropriate test certificate and the validity of use.
- e. Advice in any change in legislative change of Factories Act.
- f. Enforce the company's Safety Rules and Regulations.
- g. Investigate accidents, put up necessary reports and recommend remedial actions.
- h. Act as secretary to site Safety Committee and preside the meeting in the absence of Chairman.

G.<u>SAFETY CO-ORDINATOR/WORKPLACE SAFETY & HEALTH CO-</u> ORDINATOR

Safety Co-ordinator / Workplace Safety & Health Coordinator

- a. To promote workplace safety and health according to company's SMS (Safety Management System)
- b. To advice, Coaching, Conduct Briefing & Training to work personnel of safety matters.
- c. To assist Site In-charged and/or Project Manager ensuring safety is planned into all operations, review all working methods and process, both new and existing to see that all safety precautions are met.
- d. To assist Site In-charged and/or Project Manager review any new or changes in processes, equipment and assessment of the hazards.
- e. Act as secretary of Safety Committee.
- f. Ensure that SWP & RA established communicated to the workers on site.
- g. Investigate accidents & incidents, put up reports and recommend remedial actions.
- h. Liaise with all workplace occupier and/or site visits of aut
- i. Act as secretary of Safety Committee.
- j. Coordinate all Health & Safety matters with cooperate safety personnel, main contractor's safety officer and or officer's from authorities (MOM)
- k. Coordinate Safety activities to ensure implementation throughout the organization while maintaining close relationship with management, supervisor and workers on job site.
- Apply Safety knowledge in work operations; maintain safety records, inspection records and other records in line with the SMS (Safety Management System) set up on site.
- Identify unsafe acts, hazards, diagnosed causes and take corrective actions to rectify the problems immediately so as to ensure a safe work environment for all on site.
- n. Carry out daily inspections on site to eliminate any unsafe practices, conditions & unsafe act in non conformance with local safety standards and documented.
- o. Assist client, main contractor, supervisors and subcontractors in identifying and resolving problems related to safety.
- p. Conducted daily safety checks all on lifting machines, gears and accessories.
- q. Attends to safety committee meeting that meets once a month.
- r. Conducts toolbox meeting for all levels of personnel.

H.SITE IN-CHARGE AND SUPERVISOR IN-CHARGE

Site In-charge / Supervisor In-charge

- a. To promote workplace safety and health according to company's OH & S policy statement.
- b. To advice, Conduct Briefing & Training to work personnel of safety matters.
- c. To ensure all accidents & incidents are Investigate, and responsible to put up reports and recommend remedial actions.
- d. To ensure all safety record and reports are compiled and proper filing.
- e. Assist on safety audits
- f. Liaise with all workplace occupier and/or site visits of authorities on safety matters.
- g. To ensure weekly safety inspections are conducted and report are put up on follow-up actions.
- h. Ensure that SWP & RA established communicated to the workers prior to commencement of work.
- i. Coordinate all Health & Safety matters with cooperate safety personnel, main contractor's safety officer and attend to site inspection of officer's from authorities
- j. To conduct First-day Safety Induction for all work personnel on site and keep records. (Note: where _____as main-contractor)
- k. To ensure on daily toolbox meeting are conduct and take active role to brief on daily task and related hazard to the work personnel.

I. DUTY SUPERVISOR / FOREMAN

Piling and or Duty Supervisor/ Foremen

- a Responsible for the safety, health & welfare of all workers either assigned or not assigned to him but may be working temporary in his area.
- b. Ensure that workers know safety, health and environmental rules and regulations, followed safe job procedures and all major hazards associated with their work and work areas.
- c. Conduct daily tool-box meeting and safety inspection in his area of responsibility and to rectify any unsafe conditions or practices immediately after such inspections.
- d. Maintain satisfactory standards of housekeeping in his assigned area.
- e. Ensure that all workers in his working area use the appropriate personal protective equipment.
- f. Coordinating all piling activities in accordance to the method of statement;
- g. Brief all piling team members on the day to day plan or activities during daily toolbox meeting, safe piling procedures and RA;
- h. Ensure that only trained appointed registered crane operators and appointed banksman participate in piling operation;
- i. Ensure that the ground conditions are safe for any piling operation to be performed;
- j. Oversee all piling operations; carry out work without the compromised of safety.
- k. Take suitable measures to rectify any unsafe conditions to ensure the piling operation can be conducted safely;
- I. Ensure permit to work system are implemented.
- m. Ensure LM certificates is issued prior deployment of piling machines.
- n. To mark and identify the safe operation area and to identification of safe swinging demarcation area after the parking of the machines prior the boring operation.
- o. Ensure piling operator conduct a daily check on their rigs and enter their findings into a inspection checklist.
- p. Confirm that there is no cables or any underground utilities prior work by carry out cable detection conducted by 'licensed cable detection workers'
- q. To position or place boring tools in proper & safe manner to ensure the stability of the tools to prevent from falling or collapsed.

J. SAFETY SUPERVISOR

- a. To advice, Conduct Briefing & Training to work personnel of safety matters.
- b. Investigate accidents & incidents, put up reports and recommend remedial actions.
- c. Compile all safety record and reports.
- d. Assist on safety audits and put reports.
- e. Assist on liaising with main contractor on safety matters.
- f. Conduct safety inspections and put up report on follow-up actions.
- g. Ensure that SWP & RA established was communicated to the workers prior to commencement of work.
- h. Coordinate all Health & Safety matters with cooperate safety personnel, main contractor's safety officer and attend to site inspection of officer's from authorities (MOM)
- i. To conduct First-day Safety Induction for all work personnel on site and keep records. (Note: where RPPL as main-contractor)
- j. To conduct daily toolbox meeting.

K. <u>FIRST AIDER</u>

- a. Report to the site Safety Supervisor.
- b. Maintain the first aid facilities and attend to all injured personnel in the worksite.
- c. Provide basic first aid knowledge and training to site personnel.

L. <u>LIFTING SUPERVISOR</u>

- a. Checks and prepare crane access for lifting operations
- b. Monitor daily checking of cranes by crane operators.
- c. Monitor and ensure the maintenance and inspection programmed of cranes and passengers hoist.
- d. Ensure operators conduct daily checking of cranes.
- e. Monitors safe lifting procedures are carried out.
- f. Coordinating all lifting activities in accordance with lifting plan;
- g. Brief all lifting team members on the lifting plan, safe lifting procedures and RA;
- h. Ensure that only registered crane operators, appointed riggers and appointed signalmen participate in lifting operation involving the use of mobile crane and lorry loader;
- i. Ensure that the ground conditions are safe for any lifting operation to be performed;
- j. Be present during all lifting operations;
- k. Take suitable measures to rectify any unsafe conditions to ensure the lifting operation can be conducted safely;

M. <u>RIGGERS</u>

- a. Check the slings to be used for slinging the loads to ensure that the slings are of good construction, sound and suitable material, and adequate strength and free from patent defect.
- b. Ensure that an adequate number of legs of the sling are used and that the slinging angle is correct so as to prevent the sling from being overloaded during the hoisting.
- c. Ascertain the weight of the load, which is to be lifted and inform the crane operator of the weight of the load.
- d. Ensure that only proper lifting gears are used in conjunction with the sling.
- e. Ensure that the load to be lifted is secured, stable and balanced.
- f. Ensure that any loose load including stones, bricks or tiles, is placed in a receptacle to prevent the load or part thereof from falling during the lifting operation.
- g. Report any defect in the lifting gear to the lifting supervisor.
- h. Ensure the load is correctly rigged up prior to giving signals to commence the lift;
- i. Give correct and clear signals to the lifting equipment operator to maneuver the load safely from the point of lift to the destination;
- j. Ensure communications are maintained with the lifting equipment operator throughout the lift in accordance with the lifting plan;
- k. Ensure the lift is controlled throughout the duration of the operation;
- 1. Ensure the immediate areas within the lift (start point and final position) are clear of any hazards during the maneuver;
- m. Maintain his position so as to ensure line of sight during the controlled phase of the lift and to ensure this position is free of danger;
- n. Refrain from handling load/rigging simultaneously when giving signals to the operator;
- o. Ensure all slings, webbings, shackles and other lifting gears used to rig the load are within the SWL of the lift, in good condition and duly certified;
- p. Ensure that the load is rigged up in such a manner that it is stable, balanced (centre of gravity beneath the hook) and secured (i.e. no loose items);
- q. Ensure that the lifting equipment operator has been informed of the weight of the load;
- r. Establish tag lines to control the load as it is being maneuvered;
- s. Report any defect in lifting / rigging and materials to lifting supervisor;

N. <u>SINGNAL MAN</u>

- a. Ensure or verify with the rigger that the load is properly rigged up before he gives a clear signal to the crane operator to lift the load.
- b. Give correct and clear signals to guide the crane operator in the manoeuvre of the load safely to its destination.
- c. Ensure the load is correctly rigged up prior to giving signals to commence the lift;
- d. Give correct and clear signals to the lifting equipment operator to maneuver the load safely from the point of lift to the destination;
- e. Ensure communications are maintained with the lifting equipment operator throughout the lift in accordance with the lifting plan;
- f. Ensure the lift is controlled throughout the duration of the operation;
- g. Ensure the immediate areas within the lift (start point and final position) are clear of any hazards during the maneuver;
- h. Maintain his position so as to ensure line of sight during the controlled phase of the lift and to ensure this position is free of danger;
- i. Refrain from handling load/rigging simultaneously when giving signals to the operator;
- j. Ensure all slings, webbings, shackles and other lifting gears used to rig the load are within the SWL of the lift, in good condition and duly certified;
- k. Ensure that the load is rigged up in such a manner that it is stable, balanced (centre of gravity beneath the hook) and secured (i.e. no loose items);
- 1. Ensure that the lifting equipment operator has been informed of the weight of the load;
- m. Establish tag lines to control the load as it is being maneuvered;
- n. Report any defect in lifting / rigging and materials to lifting supervisor;

O. <u>CRANE OPERATOR</u>

- a. Shall not carry out any lifting operation unless a lifting supervisor is present or has approved the carrying out of such operation.
- b. Shall not engage in any act of manoeuvre which is not in accordance with safe and sound practice.
- c. Shall ascertain whether the ground conditions, in particular the ground surface on which a mobile crane is to be operated, are safe for travel or any lifting operation, he shall report to the lifting supervisor.
- d. Shall not used the crane for any operation for which it is not intended, including pulling or dragging a load.
- e. Shall ensure that any outrigger when it is required is fully extended and secured.
- f. Shall before the start of every work shift, carry out operational tests on all limit switches under no load conditions before any lifting operation is carried out and shall enter the results of such tests in a log-book or log-sheet.
- g. Shall not hoist any object if he is unable to ascertain the weight of the object.
- h. Shall not hoist any load unless he has received a clear signal from a signalman.
- i. Carry out the lifting operation in accordance with the lifting plan.
- j. Inspect the lifting equipment prior to use to check for abnormalities.
- k. Check that load radius indicator and other safety devices are functioning properly;
- 1. Ensure that the ground is stable and the surrounding is free from any structures or materials that may obstruct the lifting operation;
- m. Carry out lifting operation only when a lifting supervisor is present on site;
- n. Disengage from any maneuver that is dangerous;
- o. Monitor environmental effects such as thunderstorm and strong wind that will affect safe operation of the lift.
- p. Report any defects immediately to the lifting supervisor and record such defects in the maintenance log records;
- q. Stop the lift whenever unsafe conditions occur; and
- r. Check the crane wire rope to ensure it is still within safe use.

P. BANDSMAN / FOR HAEAVY MACHINERIES

- a. To use all PPE issued to them when carrying out their work.
- b. To observe all safety precautions and report all unsafe conditions.
- c. To attend all safety training.
- d. To comply with the company in-house safety rules and regulations.
- e. Give correct and clear signals to guide the driver and/or crane operator in the maneuver of the vehicle/machines.
- f. He must be a trained certified signaller cum rigger.
- g. Give correct and clear signals to the boring equipment operator to maneuver the boring rig safely from the point A to the destination;
- h. To watch-out, prevent workers to approach the pre-bore pilot-hole during casing installation
- i. To assist the piling operator conduct a daily check on their rigs and enter their findings into a inspection checklist
- j. Ensure line of sight and communications are maintained with the boring equipment operator throughout the maneuver of boring machines;
- k. Ensure the immediate areas within the maneuver (start point and final position) are clear of any hazards during the maneuver;
- 1. Maintain his position so as to of the boring operation and to ensure this position is free of danger;
- m. To put in place/provide welded metal mash cover to cover bored hole during inspection and/or unattended period.
- n. To assist or inform piling supervisor of the barricade and/or cover to enclose the bore hole immediate after works.

Q. TRAFFIC CONTROLLER

- a. To use all PPE issued to them when carrying out their work.
- b. To observe all safety precautions and report all unsafe conditions.
- c. To attend all safety training.
- d. To comply with the company in-house safety rules and regulations.
- e. Give correct and clear signals to guide the driver and/or trailer drivers during the maneuver of the vehicle/trailer.
- f. Ensure line of sight and communications are maintained with the drivers throughout the maneuver of vehicles.
- g. Maintain his position so as to of the boring operation and to ensure this position is free of danger;
- h. To put in place/provide demarcation to indicate the access way for the vehicle.

R. WELDER AND HOT-WORK WORKER

- a. Must ensure relevant Permit-to-Work for hot-works is obtained prior carrying out any hot-works.
- b. Only competent and appointed workers shall use the welding machine and or flame cutter.
- c. Must take precaution against any exposure of ultraviolet radiation, fire explosion, asphyxiation, or exposed to toxic gases, fumes or dust on the workers and other personnel during welding activity.
- d. Must ensure fire extinguisher provided at the welding site.
- e. Must be competent using the fire extinguisher.
- f. Must wear adequate eye and face protection during welding activity.
- g. Must wear welding shields to protect the eyes.
- h. To ensure earth-rod are inserted into ground (min 600mm) before every used of welding machines.
- i. Mush conduct daily maintenance checks on their welding-set and oxygen-acetylene flame cutter set prior used.

S. <u>GENERAL WORKER</u>

- a. To use all PPE issued to them when carrying out their work.
- b. To observe all safety precautions and report all unsafe conditions.
- c. To attend all safety training.
- d. To comply with the company in-house safety rules and regulations.

T. EXCAVATOR OPERATOR

- a. Only certified operators are allowed to operate the excavators.
- b. Mush conduct daily maintenance checks on their excavators
- c. Ensure that the excavator is maintained in safe working conditions
- d. Must use PPE at all times while working on site.
- e. Must ensure mechanics conduct 3-monthly maintenance checks on the excavator.
- f. Must ensure relevant Permit-to-Work for excavation or to dig is obtained prior carrying out excavation work.
- g. Ensure that excavator is parked safety after work.

U. LORRY / TRUCK DIRVER

- a. Must possess the necessary driving license for the category of vehicles he operates.
- b. Must drive the truck in a careful and safe manner.
- c. Must conduct vehicle pre-use check and operate the vehicle in a safe manner.
- d. Must comply with all safety rules and regulations while driving.

V. <u>FORKLIFT OPERATOR</u>

- a. Only authorized or competent operators are allowed to operate a forklift.
- b. Must conduct forklift pre-use check and operate the forklift in a safe manner.
- c. Ensure that the forklift is maintained in a safe working condition.
- d. Must use a PPE at all times while working on site.

W. SCAFFOLD SUPERVISOR

- a. Shall ensure that the scaffold is erected, added to, or altered or dismantled in accordance with Factories (Scaffolds) Regulations.
- b. Ensure no scaffold shall be erected or be substantially added to or altered or be dismantled except under the immediate supervision of the scaffold supervisor approved in writing by the Chief Inspector.
- c. To inspect the scaffold within the immediate preceding 7 days.
- d. Ensure the results of such inspections are entered in a Register containing details as required by the Chief Inspector and the register shall be kept available at the site for inspection by the Inspector.

X. MAN HOLE SUPERVISOR

- a. To test the atmosphere of a confined space prior to entry by any person in the manhole.
- b. To conduct periodic testing at intervals determined by him. The test intervals should not exceed 8 hours.
- c. Keep the records of the results of the gas meter readings.

The above responsibilities shall be;

Communicated to respective personnel via safety induction training included in the Appointment Letter (whenever applicable)

Management support & adequate resources will be provided to enable OH&S tasks to be performed effectively such as:

- · Director to attend safety meeting, give safety speech, present safety award to employees
- To provide all necessary safety measures at work
- · Sufficient time to take corrective actions to rectify safety non-compliance

****IN HOUSE RULES AND REGULATIONS**

- 1 Workers must fully use their safety personal protective equipment (PPE).
- 2 Report injuries sustained, unsafe act / condition to your immediate supervisor at once
- 3 Safety harness/belts must be worn when working above 2 meters (6 ft) and must be properly anchored. Barricades all openings of more than 1.8 meters (5 ft) deep.
- 4 Report injuries sustained to your immediate supervisor at once.
- 5 No throwing of objects or debris from height.
- 6 Strictly observe all safety / warning signs posted.
- 7 No Littering Keep workplace clean . Procedure good housekeeping.
- 8 No fooling or joking whilst working.
- 9 Never operate machines/equipment/explosive powered tools if you are not trained or authorized.
- 10 Do not use defective tools/equipment. Keep them away properly to prevent others from using it.
- 11 Do not take short cuts Use Proper Access.
- 12 Never hitch a ride on suspended load or moving dumpers ,excavators etc.
- 13 Any worker who violates safety rules and regulations will be severely dealt with.
- 14 Attend tool box meetings and worksite general assembly, participate in safety promotion.
- 15 Observe all safety measure and work safely at all times.

Regards,

AUNG THAN KYI

CHIEF ENGINEER



SAFE WORK PROCEDURES

SWP - 01

SAFE WORK PROCEDURE - WORKING AT HEIGHT (2 Meter and Above)

- *1* To apply permit to work at height prior any work commence.
- 2 All working platform to be provided with protective measures such as safety guardrail/ fencing or barricades.
- 3 All personnel working at height are provided with safety harness/ safety belts and is briefed and trained the correct use of safety harness or restraint.
- 4 All safety harness/ safety belts are inspected by safety supervisor / supervisor incharge daily before use.
- 5 The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA and site instructions to all workers through toolbox meeting or first day at work orientation.
- 6 Where ladder is in use, ensure that all ladders are securery fixed, or held by a person, to prevent them from slipping.
- 7 Provide & use correctly other suitable equipments such as safety harness or safety belts if barricates/lifelines cannot be provided, such as 'Travel Restraint System' consist of a safety belt or harness that is connected by a lanyard to a suitable anchorage point or static line to restrict the person movement and prevents him from approaching an unprotected edge on a building or structure.
- 8 A PE's design passenger hoist/cage will be provided to transport workers up and down from test pile.
- 9 Lifelines to be provided when there are no suitable anchorage points for safety harness/ safety belts

SAFE WORK PROCEDURE - SAFETY ON HOT WORKS

WELDING EQUIPMENT

- *1* To apply permit to work prior any hot works
- 2 The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA and site instructions to all workers through toolbox meeting or first day at work orientation.
- 3 Welding cables shall be connected or spliced in an approved manner. There shall be no exposed metal part in any splice.
- 4 Welding equipment shall be equipped with a fire extinguisher at all time .Ensure the fire extinguisher is in good working condition and fully refilled after each use.
- 5 Welding electrode holder is in good working condition.
- 6 Ensure that weld splatters or sparks do not come into contact with flammable materials.
- 7 DO NOT use welding equipment unless you have been trained to use it.
- 8 To ensure the hot work area is free from combustible materials
- 9 To use/put on PPE e.g. head shield, welding glove, etc.

CUTTING EQUIPMENT

- *1* To apply permit to work prior any hot works
- 2 The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA and site instructions to all workers through toolbox meeting or first day at work orientation.
- 3 Ensure all gas cylinder are secured in upright position at all time.
- 4 Check regulators for leakage and replace immediately if it is faulty.
- 5 Check all hoses for leak and ensure securely join and fasten with approved types of clips.
- 6 Check cutting torch for damage, replace if necessary.
- 7 Ensure flash back arrestors are installed at both ends and are in working condition.
- 8 Fire Extinguisher is provided near to equipment.
- 9 No Smoking'notice or proper warning sign shall be placed near the equipment.
- 10 To use/put on PPE e.g. head shield, welding glove, etc.

SAFE WORK PROCEDURE - SAFETY ON LIFTING OPERATION

- *I* To apply Permit To Hoist prior all lifting activities by the site safety supervisor and or site supervisor.
- 2 Appointed crane operator to conduct daily check/inspection for all lifting machines prior work.
- 3 Lifting supervisor to conduct check/inspection for all lifting gear to ensure the good working condition and the validity of the LG certificates.
- 4 No crane shall be used or operated unless it has a valid Lifting Machine certificate.
- 5 Every crane shall be provided with safe working load indicator visible to the operator showing the safe working load corresponding to the radius of operation .
- 6 Every crane shall have a cut-off device warning overloading of the crane capacity.
- 7 Cranes shall be operated by only certified competence crane operators.
- 8 Effective control must be exercised at all stages of a lifting operation through the deployment of a competent Lifting Supervisor, a qualified signalman, a registered crane operator and trained riggers.
- 9 The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA and site instructions to all workers through toolbox meeting or first day at work orientation.
- 10 Understand the 'Safe Working Load' of slings, chains, shackles, etc. If you are in doubt, do not allow any lifting until it has been checked/advised by a qualified Lifting Supervisor.
- 11 To confirm on the correct crane type as approved for heavy lifting by the respective site safety supervisor or project manager.
- *12* To check on the crane working platform design by PE. and to ensure by the respective site safety supervisor or project manager.
- *13* Ensure workers are not allowed within the coverage of the crane swing area and keep a clearance between the rear counterweight and any object nearby or cordon off.
- 14 Suspended loads shall be unloaded, engine shut down and ignition key should be removed from crane whenever the operator is absent from the machine.
- 15 Not to maneuver or hold any suspended load over any road or public area unless these areas has been cordoned off
- 16 To provide sufficient lighting for the task if or when dark.
- *17* Lifting Supervisor to ensure and remind signaller and lifting operator to always keep the main hoist or auxiliary hook blocks above heads level and/or reasonably practicable height.

SAFE WORK PROCEDURE - SAFETY ON BORING OPERATION

- 1 No boring rig/crane shall be used or operated unless it has a valid Lifting Machine certificate
- 2 Appointed rig/crane operator to conduct daily check/inspection for all boring machines prior
- 3 Banksman are appointed and to assist boring rig/crane operator conduct daily check/inspection prior work.
- 4 The site safety supervisor and or appointed safety personnel to conduct briefing of SWP, RA and site instructions to all workers through toolbox meeting or first day at work orientation.
- 5 Every boring rig/crane shall be provided & rested with steel plate at all time while parking.
- 6 Boring rig/crane shall be operated by only appointed operators
- 7 Check all attachment prior to work start for any loose items like secure auger to the kellybar with a kelly pin attached with safety pin at one end, ensure auger teeth are secured to the shank properly.
- 8 Open bore hole to be protected by metal mash cover if left unattended and safety casing with minimum of 500mm to 1mtr above ground level to prevent person from falling into drilled shaft.
- 9 Ensure non related workers are not allowed within the coverage of the boring rig/crane swing area and keep a clearance between the rear counterweight and any object nearby or cordon off.
- 10 To wear ear protection where necessary eg. ear plugs / mufflers
- 11 Constantly check wire-rope of kelly bar for wear and tear, change immediately if the rope is found abnormal or unsafe to-use.
- *12* Effective control must be exercised at all stages of a boring operation though the deployment of a competent banksmen/signalman.
- 13 To check on the crane working platform design by PE. and to ensure by the respective site safety supervisor or project manager.
- 14 Suspended loads shall be unloaded, engine shut down and ignition key should be removed from crane whenever the operator is absent from the machine.
- 15 To ensure on site by checking againts main-contractor provided information of cable and or under ground services layout/plan prior any boring activities.
- 16 To apply Permit To Work prior all boring activities by the site safety supervisor and or site supervisor if applicable.
- 17 To ensure the safety measure is in place during the process of installing and/or extraction of temporary casing with the aid of lifting machine and the lifting team by using vibro hammer.
- 18 To mobilized and set the boring rig/crane by coordinate with the operators with proper signal and guide for every movement provided by the banksmen/signalman.
- *19* To assist the rig operator by preparing the drilling tools before hand with the team of lifting supervisor, rigger, signalman & competent operator,
- 20 Banksman to ensure the stability of the boring tools by positioning or placing of boring tools in proper & safe manner to prevent it from falling or collapsed.
- 21 Working handglove to be worn by banksman duirng clearing of soil within the 'kelly-box' and should use proper tools to assist.
- 22 Banksman to instruct the boring machine operator to swing aside and shall not carry work under any load of the kelly-bar.
- 23 Boring operator and/or banksman to inform the Lifting Supervisor during the lifting of 'kelly-bar' without the attachment of boring tools, (eg. during the process of erecting/dismentling of 'kelly-bar') and Lifting Supervisor to ensure PTW for hoist shall applied and approved prior carry out work.
- 24 Backfill or provide barricate to enclose the bore hole after work.

SAFE WORK PROCEDURE - SAFETY ON EXCAVATION OPERATION

- *1* To apply permit to work prior any excavation works
- 2 Excavation and trenches of 1.5 meters or more in depth shall be shored or stepped in an approved manner.
- 3 Open sides of excavation where a person may fall from a height of more than 2 meters should be guarded by adequate barricades with warning signs placed where they are readily or easily seen.
- 4 Ladders shall be provided in excavation and trenched of 1.2 meters or more in depth to ensure safe access to and egress from such excavation.
- 5 Excavation and trenches shall be inspected daily by a competent person. If there is any evidence of cave-in or slides, all work shall cease until necessary precautions have been taken.
- 6 Excavated or other materials shall be stored at least 610mm away from the edge of any excavation.
- 7 Excavation near underground facilities must be carried out manually using hand tools.
- 8 Machinery must be position and operated in a manner that will not endanger any person within the excavation work.
- 9 Excavation banks must be check periodically and after increment weather for sign of erasion.
- 10 Open cut excavation to maintain at 45 degree angle not more than 4 meter in height. Otherwise PE must be engaged to ensure soil stability.
- 11 Excavator operator should be competent and trained in order to carry out any deep excavation work.
- *12* The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA and site instructions to all workers through toolbox meeting or first day at work orientation.
- 13 Excavator operator to ensure the area are safe for the swing of the excavator boom/arm and only swing or travelling after conduct blind-spot check.
- 14 Operator to always maintain the excavator bucket at lowest possible height to the ground level while it heavy loaded,
- 15 Excavator operator to conduct check on rear mirror every time during the gliding of the machines for if any steelplates stuck at the trackshoes.
- 16 Excavator operator of all parties on site shall be briefed on the safe procedure that he should travel at slow speed while gliding the trackshoes on steelplates.

SAFE WORK PROCEDURE - LOAD TEST PREPARATION (KENTLEDGE SYSTEM)

- *I* To apply Permit To Hoist prior all lifting activities by the site safety supervisor and or site supervisor.
- 2 Appointed crane operator to conduct daily check/inspection for all lifting machines prior work.
- 3 Lifting supervisor to conduct check/inspection for all lifting gear to ensure the good working condition and the validity of the LG certificates.
- 4 No crane shall be used or operated unless it has a valid Lifting Machine certificate.
- 5 Every crane shall be provided with safe working load indicator visible to the operator showing the safe working load corresponding to the radius of operation.
- 6 Every crane shall have a cut-off device warning overloading of the crane capacity.
- 7 Cranes shall be operated by only certified competence crane operators.
- 8 Effective control must be exercised at all stages of a lifting operation through the deployment of a competent Lifting Supervisor, a qualified signalman, a registered crane operator and trained riggers.
- 9 The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA and site instructions to all workers through toolbox meeting or first day at work orientation.
- 10 Understand the 'Safe Working Load' of slings, chains, shackles, etc. If you are in doubt, do not allow any lifting until it has been checked/advised by a qualified Lifting Supervisor.
- 11 To confirm on the correct crane type as approved for heavy lifting by the respective site safety supervisor or project manager.
- *12* To check on the crane working platform design by PE. and to ensure by the respective site safety supervisor or project manager.
- *13* Ensure workers are not allowed within the coverage of the crane swing area and keep a clearance between the rear counterweight and any object nearby or cordon off.
- 14 Suspended loads shall be unloaded, engine shut down and ignition key should be removed from crane whenever the operator is absent from the machine.
- 15 To check on the test pile platform by the respective site supervisor or project manager, top soil may need improvement by laying of hard core, steel mats or steel plates due to unfavorable soil condition.
- 16 Conduct daily inspection/check by respective supervisor incharge by monitoring the settlement of kentledge's platform and the stacking of kentledge's is not slanted or unbalance.
- 17 To ensure surrounding of the test pile kentledge are free from any deep excavation.
- 18 To remind all workers that resting underneath the kentledge is strictly prohibited.
- *19* The site safety supervisor and or site supervisor to ensure only a PE's designed passenger hoist/cage will be provided to transport workers up and down the stacked blocks.
- 20 Provide & use correctly other suitable equipments such as safety harness or safety belts if barricates/lifelines cannot be provided, such as 'Travel Restraint System' consist of a safety belt or harness that is connected by a lanyard to a suitable anchorage point or static line to restrict the person movement and prevents him from approaching an unprotected edge.

MOBILIZATION/DEMOBILIZATION, MOVEMENT OF VEHICLES ON SITE

- *1* Traffic Controller to station at the access fronting the site entrance to control and Guide all traffic in and out of the site.
- 2 The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA and site instructions to all workers through toolbox meeting or first day at work orientation.
- 3 All necessary signs are to be installed at conspicuous positions to forewarn of any potential danger.
- 4 All vehicles leaving the site must be cleaned properly and to drive slowly within the site and/or to follow the in house speed limit signboard
- 5 All vehicles should give way to the general public and other vehicles within the compound or while leaving the site.
- 6 Provide a sweeper to clean up any litters of mud, earth or debris when necessary.
- 7 To use/put on basic PPE for all drivers or delivery man. e.g. safety helmet, boots, etc.
- 8 Project Manager shall ensure sufficient width is catered to the vehicle access during planning and construction.
- 9 Site Manager/Safety Supervisor shall ensure sufficient lighting is provided along the vehicle acce
- *10* Site Manager/Safety Supervisor to instruct all suppliers and contractors to inform their drivers to follow the verbal and hand signals of the worksite's traffic controllers.
- 11 Site Manager shall conduct periodicaly check on the vehicle access is safe for use and provide feedback to main-con safety personnel.
- 12 Driver shall not exceed the speed limit of 15 km/hour when driving in the worksite.
- 13 Speed limit signage shall be prominently displayed at the entrance of the worksite.
- 14 Every heavy vehicle shall switch on the hazard light (at night) when entering the worksite.
- 15 Traffic controller shall wear luminous vest and reflective hand gloves (when dark/at night) to direct traffic movement.
- *16* Traffic controller, Safety or Piling Supervisors shall conduct routine checks to ensure vehicle access is not blocked.
- 17 Traffic controller shall check the vehicle for the present of right and left mirrors before directing the vehicle to enter the worksite.
- *18* Brief and/or worker not to stand directly in front or at the rear of the vehicle during daily toolbox talk.
- *19* Ensure no pedestrian is crossing before directing the vehicle into or out of the worksite and provide in-house training for traffic controller and keep the record.
- 20 Traffic controller shall be provided with whistle or other communication tool.

SAFE WORK PROCEDURE – SAFETY ON ASSEMBLY & DISASSEMBLY OF CRANE and/or RIG

- *1* To apply Permit To Hoist prior all lifting activities by the site safety supervisor and/or site supervisor.
- 2 Appointed crane operator to conduct daily check/inspection for all lifting machines prior work.
- 3 Lifting supervisor to conduct check/inspection for all lifting gear to ensure the good working condition and the validity of the LG certificates.
- 4 No crane shall be used or operated unless it has a valid Lifting Machine certificate.
- 5 All assembly, repairs and maintenance works must be carried out by trained and/or competent maintenance personnel.
- 6 The presence of approved crane erector shall provide for the process of assembly & disassembly of crane and/or rig
- 7 To ensure machines is proper lock-out before any repair or maintenance.
- 8 Effective control must be exercised at all stages of lifting operation through the deployment of a competent Lifting Supervisor, a qualified signalman, a registered crane operator and trained riggers.
- 9 The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA and site instructions to all workers through toolbox meeting or first day at work orientation.
- *10* Ensure workers are not allowed within the coverage of the crane swing area and keep a clearance between the rear counterweight and any object nearby or cordon off.
- 11 All hand tools shall handle and keep properly and to store in means of toolbox/container
- *12* Ensure bolts are installed and secured, no workers are under the suspension load before signal to releasing the hoist of the helping crane
- 13 Visual check for if any tools are left on the boom before lift-up the boom of the crane.
- 14 Lifting machine shall be inspected by AE after assembly prior any use.
- 15 To use/put on PPE.

SAFE WORK PROCEDURE – SAFETY ON GENERAL REPAIR and/or MAINTENANCE WORK for MACHINERIES, PLANT, CRANE and/or RIG

- *I* Safety Coordinator/Supervisor to ensure all relavant permit-to-work are apply and approval prior the high risk work
- 2 Safety Coordinator/Supervisor to ensure duty mechanics/ technician are briefed for the relevant hazard.
- 3 Any mechanical issue of the machineries, he should always report to duty mechanics or supervisor, and he shall not attempt to repair it by himself.
- 4 Safety Coordinator/Supervisor to ensure proper and suitable PPE are provided and are worn by the work personel, proper record shall be kept prior the work
- 5 Lifting supervisor to conduct check/inspection for all lifting gear to ensure the good working condition and the validity of the LG certificates.
- 6 Switch-off engine and allowed time for engine to cool down. Not to open the cap/cover of radiator, diesel tank, lubrication oil, etc. while engines is still running or is hot and/or presurelised.
- 7 Work personnel to put on face shield, leather glove and long sleeve attire while handling the hot surface, liquid or hot steam.
- *9* Periodic servicing, repairs and maintenance works will be carried out by trained and/or competent maintenance personnel and/or service technicians.
- *10* To ensure machines or equipment to be repair or provide maintenance are switch off and/or cabin are locked.
- 11 To ensure machines is proper lock-out before any repair or maintenance.
- 12 Effective control must be exercised at all stages of lifting operation through the deployment of a competent Lifting Supervisor, a qualified signalman, a registered crane operator and trained riggers.
- 13 The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA and site instructions to all workers through toolbox meeting or first day at work orientation.
- 14 To remind all work personnel on site of the possible hazards, especially operators, banksman, mechanics and newly joint workers, regularly through daily toolbox meeting.
- 15 All hand tools shall handle and keep properly and to store in means of toolbox/container

- 16 Ensure bolts are installed and secured, no workers are under the suspension load before signal to releasing the hoist of the helping crane
- 17 Visual check for if any tools are left on the boom before lift-up the boom of the crane.
- 18 To provide container to contain used lubrication oil.
- 19 When welding and/or flame cutting works are required, permit to work for hot work shall apply and approved prior any hot work activity.
- 20 To provide proper PPE for all relevant activity
- 21 Ensure no loose clothing while working near to any possible rotating parts of the engines from the kinetic hazard.
- 22 A proper tools to be use to avoid placing hand/ finger into the gaps or pinching point.
- 23 To provide proper access and egress to reach the work area
- 24 Proper footware to be use to prevent slip and fall from height
- 25 To put on fall protection equipment and to anchor on a secure ancorage point
- 26 A PE's design Man-cage will be provided to transport workers up and down when necessary.
- 27 Duty Mechanics and/or Erector shall be informed and made known of the project's in-house rules and basic PPE requirement, (eg. attending the SIC conducted by main contractor prior work)
- 28 Safety supervisor to conduct check during the work process, for all work personnel to equipt with relevant PPE.
- 29 Safety Sup. to conduct regular inspection on site to ensure proper tools to be use and to avoid using bare hand

SAFE WORK PROCEDURE - SAFETY ON LIFTING OF 'MANCAGE'

- *I* To apply Permit To Hoist prior all lifting activities by the site safety supervisor and or site supervisor.
- 2 No 'Mancage' shall be used unless it has a valid Lifting Gears certificate within 6 months.
- 3 Lifting supervisor to conduct check/inspection for all lifting gear to ensure the good working condition and the validity of the LG certificates.
- Prior to each use, check that the condition of the 'Mancage' is safe and in good condition.eg. The platform base, safety latch and the swing door etc..
- 5 Before Lifting of personnel, test run with the empty 'Mancage' first by hoisting up and down, by testing all the function of the crane.
- 6 Understand the 'Safe Working Load' of the 'Mancage'
- 7 At any time, 'Mancage' only allowed not more than two (2) person to use at the same time.
- 8 Effective control must be exercised at all stages of a lifting operation through the deployment of a competent Lifting Supervisor, a qualified signalman, a registered crane operator and trained riggers.
- 9 Every crane shall be provided with safe working load indicator visible to the operator showing the safe working load corresponding to the radius of operation. Every crane shall have a device warning overloading of the crane capacity.
- 10 Cranes shall be operated by only certified competence crane operators.
- 11 Every crane shall have a cut-off device warning overloading of the crane capacity.
- 12 No crane shall be used or operated unless it has a valid Lifting Machine certificate.
- 13 Hand signals to crane, hoist operator and rigger shall be given by a trained competent person.

SAFE WORK PROCEDURE - SAFETY ON CONCRETING

- *I* To apply Permit To Hoist prior all lifting activities by the lifting supervisor.
- 2 No crane shall be used or operated unless it has a valid Lifting Machine certificate.
- 3 Lifting supervisor to conduct check/inspection for all lifting gear to ensure the good working condition and the validity of the LG certificates.
- 4 Every crane shall have a cut-off device warning overloading of the crane capacity.
- 5 Every crane shall be provided with safe working load indicator visible to the operator showing the safe working load corresponding to the radius of operation .
- 6 Cranes shall be operated by only certified competence crane operators.
- 7 Not to maneuver or hold any suspended load over any existing structure or public area
- 8 Effective control must be exercised at all stages of a lifting operation through the deploymen of a competent Lifting Supervisor, a qualified signalman, a registered crane operator and trained riggers.
- 9 The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA
- 10 To check on the crane working platform design by PE. and to ensure by safety supervisor.
- 11 To provide proper access for concrete trucks to travel till the bored pile position by laying of steel plates
- 12 To provide a 'watchman to guide the concrete trucks to the destinated area.
- *13* Ensure the concrete trucks and workers are not allowed within the coverage of the crane swing area and keep a clearance between the rear counterweight.
- 14 Tremie pipe rack shall position or place on a firm and/or level platform.
- 15 Tremie pipe rack to be checked and approved by a PE
- 16 To provide and put on safety harness when work on height more than 2 meter, periodical check on the condition of the guard rail by safety supervisor.
- 17 Workers to put on eyes protection from the concrete or cement debris.
- 18 When welding and/or flame cutting works are required, permit to work for hot work shall apply and approved prior any hot work activity.

<u>SAFE WORK PROCEDURE – SAFETY ON ERECTING & DISMANTLING</u> <u>OF SILO PLANT</u>

- *I* Traffic controller to station at the access fronting the site entrance to control and guide all traffic during the mobilization of silo tank
- 2 The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA and site instructions to all workers through toolbox meeting or first day at work orientation.
- 3 Every crane shall have a cut-off device warning overloading of the crane capacity.
- 4 Cranes shall be operated by only certified competence crane operators.
- 5 Effective control must be exercised at all stages of a lifting operation through the deployment of a competent Lifting Supervisor, a qualified signalman, a registered crane operator and trained riggers.
- 6 Lifting supervisor to conduct check/inspection for all lifting gear to ensure the good working condition and the validity of the LG certificates.
- 7 Using tag-lines to assist and/or resist the movement of the silo tank during loading and unloading
- 8 Pre-cast or cast in situ concrete platform will be laid to prevent slanting of silo due to the unfavorable soil conditions.
- 9 To position the silo tank up right with the aid of plum-line to ensure the verticality of the silo(s).
- 10 A PE's designed 'Mancage' will be provided to transport workers up and down when necessary
- 11 To provide PE's calculation for the silo plant platform as preventive measure.
- 12 To have periodical check on the platform by safety supervisor, especially during/after heavy rain

SAFE WORK PROCEDURE - PDA LOAD TEST

- *1* To apply Permit To Hoist prior all lifting activities by the site safety supervisor and or site supervisor.
- 2 Daily check/inspection for all lifting machines prior work.
- 3 Lifting supervisor to conduct check/inspection for all lifting gear prior use.
- 4 No crane shall be used or operated unless it has a valid Lifting Machine certificate.
- 5 Every crane shall be provided with safe working load indicator visible to the operator showing the safe working load corresponding to the radius of operation .
- 6 Cranes shall be operated by only certified competence crane operators.
- 7 Lifting supervisor to check the 'SWL' of slings, shackles & eyehook are suitable.
- 8 Effective control must be exercised at all stages of a lifting operation through the deployment of a competent Lifting Supervisor, a qualified signalman, a registered crane operator and trained riggers.
- 9 The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA and site instructions to all workers through toolbox meeting or first day at work orientation.
- *10* The pile head is to built-up/cast in with a short length of collar casing to prevent the pile head from damage/cracking during the test.
- 11 To check the pile head had to be achieved min. of 7 days in concrete strength.
- *12* Check if any under ground services prior excavation work, apply 'permit to excavate' prior excavation. (conduct under ground service detection by licensed detector if necessary)
- 13 Keep a safe clearance by cordon off with safety nets/safety tapes to ensure no others workers than who is assigned are allowed into the PDA Load Test zone.
- 14 PPE to be worn during the process of preparation of PDA Load Test (i.e. safety helmet with chin-strap, eye protection, safety rubber boots, hand protection)
- 15 To provide proper excess after exposed selected pile head to minimum 800mm below the base of collar casing for the installation of transducers
- 16 Prepare the surface by general cleaning of the pile head to prevent from any frying objects
- 17 Place a piece of plywood to serve as a cushion over the pile head. (if nescessary)
- 18 To hoist the PDA hammer slowly and close to the ground level if posible, let it rest on the top of the test pile head by using the tag line to resist or to assist the movement of the load.
- 19 To ensure suspended load does not remain stationery above any persons below.
- 20 Safety Supervisor to ensure the process of the PDA load test should be fully supervise by the Lifting Supervisor
- 21 Conduct final inspection/check by respective Safety Supervisor, no one should be remain within the cordon off zone prior appointed signaller provide signal to release the PDA hammer.

<u>SAFE WORK PROCEDURE – SAFETY ON LOADING/UNLOADING OF MATERIAL AND</u> <u>EQUIPMENT USING LORRY CRANE</u>

- *I* To apply Permit To Hoist prior all lifting activities by the site safety supervisor and or site lifting supervisor.
- 2 Appointed crane operator to conduct check/inspection prior lifting work.
- 3 Lifting supervisor to conduct check/inspection for all lifting gear to ensure the good working condition and the validity of the LG certificates.
- 4 No crane shall be used or operated unless it has a valid Lifting Machine certificate.
- 5 Every crane shall have a cut-off device warning overloading of the crane capacity.
- 6 Cranes shall be operated by trained and qualify person
- 7 Effective control must be exercised at all stages of a lifting operation through the deployment of a competent Lifting Supervisor, a qualified signalman, a registered crane operator and trained riggers.
- 8 The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA and site instructions to all workers through toolbox meeting or first day at work orientation.
- 9 To check platform condition for parking/position of the lorry crane are resonably even.
- 10 Outrigger must be extented fully at all sides and use steel plates for support
- 11 To remove any loose items or materials prior lifting of the load.
- 12 Using tag line to assist and resist the movement of the load
- 13 Not to maneuver or hold any suspended load over any road or public area unless these areas has been cordoned off
- 14 Provide necessary PPE to person involve in the lifting operation.

SAFE WORK PROCEDURE - Operation and Maintenance at Silo Plant

- *I* To apply permit to work at height prior any work commence.
- 2 All working platform to be provided with protective measures such as safety guardrail/ fencing or barricades and with safe access.
- 3 All personnel working at height are provided with safety harness/ safety belts and is briefed and trained the correct use of safety harness or restraint.
- 4 All safety harness/ safety belts are inspected by safety supervisor / supervisor incharge daily before use.
- 5 The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA and site instructions to all workers through toolbox meeting or first day at work orientation.
- 6 Where ladder is in use, ensure that all ladders are securely fixed, or held by a person, to prevent them from slipping.
- 7 Provide & ensure the workers are use correctly of other suitable PPE such as safety harness or safety belts, safety helmet, eye protection, ear protection, working hand glove, dust mask, rubber hand glove etc and to replace once item is found damaged during the periodically check.
- 8 Provide & ensure the workers are use correctly of other suitable hand tools for the work assigned.
- 9 To provide MSDS of the products and should be accessible at site office or near by the plant
- 10 The site safety supervisor and or site supervisor to conduct prior briefing of MSDS of products to appointed workers through first day at work orientation.
- 11 The MSDS of the products should be accessible at site office or near by the plant
- 12 Always follow the recommended safety measure and/or handling method from products MSDS
- 13 All electrical work should only carry out by 'licensed electric worker'
- 14 Safety supervisor to carry out periodically check on cable connection and it's condition
- 15 All extension cables on site to be elevate from ground and wet surface.
- 16 To ensure silo plant area are free from stagnant water and clear all plastic waste daily

<u>SAFE WORK PROCEDURE - Maintenance work -</u> <u>Cleaning, Clearing and/or Chipping of Concrete</u>

- *1* To apply permit to work at height prior any work commence.
- 2 All working platform to be provided with protective measures such as safety guardrail/ fencing or barricades.
- 3 All personnel working at height are provided with safety harness/ safety belts and is briefed and trained the correct use of safety harness or restraint.
- 4 All safety harness/ safety belts are inspected by safety supervisor / supervisor incharge daily before use.
- 5 The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA and site instructions to all workers through toolbox meeting or first day at work orientation.
- 6 Where ladder is in use, ensure that all ladders are securery fixed, or held by a person, to prevent them from slipping.
- 7 Provide & ensure the workers are use correctly of other suitable PPE such as safety harness or safety belts, safety helmet, eye protection, ear protection, working hand glove, dust mask etc and to replace once item is found damaged
- 8 Provide & ensure the workers are use correctly of other suitable hand tools for the work assigned.

SAFE WORK PROCEDURE - Safety During Installation and/or Dismantling of Tremie Pipes

- *I* Site safety supervisor and or site supervisor in-charge to ensure all relevant Permit To Work are applied and approved. (eg. Work-at-height, Lifting Operation, etc.)
- 2 Appointed crane operator to conduct daily check/inspection for all lifting machines prior work.
- 3 Lifting supervisor to conduct check/inspection for all lifting gear to ensure the good working condition and the validity of the LG certificates.
- 4 Lifting supervisor to conduct check all lifting cranes shall be operated only by certified competence crane operators.
- 5 Lifting team are appointed and present for lifting operation (eg. Lifting Supervisor, signalman, riggers and crane operator)
- 6 The site safety supervisor to ensure workers are attended briefing on safe work procedure and the work relevant potential risks and hazards.
- 7 Lifting Supervisor / Safety Supervisor to check the condition of PPE and are properly worn or to used by the work personnel who assigned on top of the tremie-rack. (eg. body harness, working glove, etc.)
- 8 Lifting Supervisor / Safety Supervisor to ensure tremie pipes does not remain stationery above any of the work personnel.
- 9 Signalman to ensure hands are free from all pinch point prior giving any signal to the lifting crane operator.
- 10 Workers assigned on the tremie-rack should ensure pipes are placed and rest at the bottom of the rack before releasing of the pipes from the help of lifting-crane
- 11 All workers to wear hand protective glove when handling of tremie-pipes to prevent from cuts and sharp edges when handling the tremie-pipes
- 12 Not to hold bottom of the pipes or suspended load
- 13 All workers feet are not used to positioned lifted components (eg. Tremie-pipes)
- 14 All workers fingers/hands are away from the pinch point, gaps and should avoid to placed in between pipes.
- 15 Individual work personnel to pay careful attention and to observe the movement of the pipes during the process of installation and/or dismantling of pipes.
- 16 Duty Supervisor to supervise the operation and conduct random check on worker
- 17 All workers to avoid placing hand or fingers in between any opening and potential pinch point hazard, (eg. The opening of concreting table.) and supervisor in-charge to educate & promote during toolbox meeting.
- 18 Lifting Supervisor to ensure the tremie-rack placed on reasonably level and firm ground.
- *19* Duty supervisor/duty worker to check all tremie-pipes are rested well on the bottom of the rack to prevent pipes from dropping unintentionally.

SAFETY ON TEMPORARY ACCESS OF SEDIMENT EARTH TANK

- *I* To apply permit to work at height prior any work commence.
- 2 All work access to be provided with protective measures such as safety guardrail
- 3 The site safety supervisor and or site supervisor to inspect on the condition of the guard rail in placed/used are practically safe for use and able to sustained the weight of workers.
- 4 All personnel working at height are provided with safety harness and is briefed and trained the correct use of safety harness or restraint.
- 5 All safety harness are inspected by safety supervisor / supervisor in-charged daily before use.
- 6 The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA and site instructions to work personnel through toolbox meeting or first day at work orientation.
- 7 Provide and to have good practise of the 'buddy system' worker to watch-out for one another, avoid worker carry out work alone.
- 8 Planned and minimise carry out work at night if possible, supervisor in-charged to ensure sufficent working light are provided if need to carry out work when dark or at night.
- 9 The site safety supervisor and or site supervisor to ensure adequate numbers of life bouy(s) are provided and have periodically check if it's condition are in resonnalbly good, replace it if damaged.

Safety on Hacking, Triming and/or Build-up of Pile Head

- *1* No air-compressor shall be used or operated unless it has a valid certificate.
- 2 All cutting equipments shall be checked to meet all safety requirements before use. Fire-Extinguisher is provided near to hot-work zone/equipment.
- 3 Welding equipment shall be equipped with a fire-extinguisher at all time. Ensure the extinguisher is in good working condition and fully refilled after each use.
- 4 Safety goggles must be worn during the hacking operation, to prevent concrete debris or any other flying objects.
- 5 Personnel protective Equipment must be worn during the hacking and trimming of pile head operation, e.g. safety helmet, eye protection, ear protection, working hand glove, dust mask etc.. and to replace once item is found damaged
- 6 Provide & ensure the workers are use correctly of other suitable fall protection or fall restraint system PPE such as safety harness or safety belts.
 (All safety harness/ safety belts are inspected by safety supervisor / supervisor incharge daily before use.)
- 7 To apply permit to work at height if have to work more than 2 meter at height.
- 8 All personnel working at height are provided with safety harness/ safety belts and is briefed and trained the correct use of safety harness or restraint.
- 9 The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA and site instructions to all workers through toolbox meeting or first day at work orientation.
- 10 Where ladder is in use it should be in sound and good conditions and are securery fixed, or held by a person, to prevent them from slipping.
- 11 Provide & ensure the workers are use correctly of other suitable hand tools for the work assigned.
- 12 Lifting supervisor shall check with the project engineer on the safe loading capacity of the formwork slab before hoisting and unloading the air compressor.
- 13 Shall conduct inspection on the effectiveness of the air compressor's lifting ear before supervising the lifting operation.
- 14 Shall ensure only qualified rigger and signalman perform the rigging and signalling operations.
- 15 Shall be responsible to prior apply the Permit To Work from the project manager before hoisting the air compressor.
- 16 Air compressor shall be placed at least 2 meters away from the edges of building, access way and excavation.
- 17 Ensure the air compressor is switch off when not in use.

SAFE WORK PROCEDURE - SAFETY ON KING-POST INSTALLATION

- 1 To apply Permit-to-Hoist prior all lifting activities by the site safety supervisor and or site supervisor.
- 2 To attend main-con SIC on day one to be briefed on the in-house rules, emergency respond procedure, briefing on RA & SWP, etc.
- 3 Lifting supervisor to conduct check/inspection for all lifting gear to ensure the good working condition and the validity of the LG certificates.
- 4 LS to ensure no crane shall be used or operated unless it has a valid Lifting Machine certificate.
- 5 Site I/C to ensure appointment of qualified lifting supervisor; rigger/ signalman for the lifting operation and approved by PM.
- 6 Site I/C or LS to ensure lifting crane(s) shall be provided with necessary safety devices and complied with the requirement.
- 7 To check on the crane working platform design by PE. and to ensure by the respective site safety supervisor or project manager.
- 8 Suspended loads shall be unloaded, engine shut down and ignition key should be removed from crane whenever the operator is absent from the machine.
- 9 Lifting Supervisor to ensure and remind signaller and lifting operator to always keep the main hoist or auxiliary hook blocks above heads level and/or reasonably practicable height.
- 10 Ensure workers are not allowed within the coverage of the crane swing area and keep a clearance between the rear counterweight and any object nearby or cordon off.
- 11 Not to maneuver or hold any suspended load over any road or public area unless these areas has been cordoned off
- 12 To provide sufficient lighting for the task if or when dark.
- 13 Tag-lines are use to assist and/or resist the movement of the guide frame or King-post
- 14 Check and removed all loose items or hand-tools prior lifting of guide frame or King-post
- 15 Lifting Supervisor/ Duty Supervisor to supervise the process of placing of the guide frame, tag-weld, possitioning and alignment, installation of king-post column,
- 16 Duty Supervisor to check and ensure to comply the ssafe practices during carry out the hot-works

Safety On Preparation Work for Temporary Road Closure

- *1* To carry out proper submission of the road closure according to the procedure and to get clearance and/or approval from the authorities prior commence work
- 2 To call ______at the point of start for the road closure, to inform the person in-charge of the authorities prior commence work.
- 3 Traffic Controller equipt with control baton; reflective glove; highly visible green reflective vest etc. to station at the stratigic location to control and guide all traffic where necessary.
- 4 The site safety supervisor and or site supervisor to conduct briefing of SWP, RA and site instructions to all workers through toolbox meeting prior work.
- 5 To use/put on basic PPE for all site personnel working near and/or at the road or during road closure period. (e.g. highly reflective vest in green colour)
- 6 All vehicles leaving the site must be cleaned and to drive carefully to fit into the existing traffic flow.
- 7 All vehicles should give way to the general public and other vehicles during the road closure period.
- 8 Provide a sweeper to clean up any litters of mud, earth or debris when necessary.
- 9 All temporary road traffic signs; traffic cones; rotating lamps etc... are to be installed at conspicuous positions according to the approved submission plan.
- 10 Supervisor in-charged to ensure all rotating lamps to maintain operational at all times, on site should have reserve batteries or spare lamps in case of need.

<u>SPECIAL SAFETY ATTENTION DURING BORED PILE WORKS WITHIN THE FLIGHT</u> <u>PATH / ZONE.</u>

SAFE WORK PROCEDURE (Load Testing - Kentledge System)

- 1 To submit and get clearance from main contractor for all personnel deploy to the project's site
- 2 All workers whom work at the project site must attend "Firstday Induction Course" conducted by main contractor's safety personnel prior work.
- 3 Lifting supervisor to conduct check/inspection for all lifting gear to ensure the good working condition and the validity of the LG certificates.
- 4 No crane shall be used or operated unless it has a valid Lifting Machine certificate.
- 5 Every crane shall be provided with safe working load indicator visible to the operator showing the safe working load corresponding to the radius of operation .
- 6 Every crane shall have a cut-off device warning overloading of the crane capacity.
- 7 Cranes shall be operated by only certified competence crane operators.
- 8 Effective control must be exercised at all stages of a lifting operation through the deployment of a competent Lifting Supervisor, a qualified signalman, a registered crane operator and trained riggers.
- 9 The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA and site instructions to all workers through toolbox meeting or first day at work orientation.
- 10 Understand the 'Safe Working Load' of slings, chains, shackles, etc. If you are in doubt, do not allow any lifting until it has been checked/advised by a qualified Lifting Supervisor.
- 11 To confirm on the correct crane type as approved for heavy lifting by the respective site safety supervisor or project manager.
- 12 To check on the crane working platform design by PE. and to ensure by the respective site safety supervisor or project manager.
- 13 Ensure workers are not allowed within the coverage of the crane swing area and keep a clearance between the rear counterweight and any object nearby or cordon off.
- 14 Suspended loads shall be unloaded, engine shut down and ignition key should be removed from crane whenever the operator is absent from the machine.
- 15 To check on the test pile platform by the respective site supervisor or project manager, top soil may need improvement by laying of hard core, steel mats or steel plates due to unfavorable soil condition.
- 16 Conduct daily inspection/check by respective supervisor incharge by monitoring the settlement of kentledge's platform and the stacking of kentledge's is not slanted or unbalance.
- 17 To ensure surrounding of the test pile kentledge are free from any deep excavation.
- 18 To remind all workers that resting underneath the kentledge is strictly prohibited.
- 19 The site safety supervisor and or site supervisor to ensure only a PE's designed passenger hoist/cage will be provided to transport workers up and down the stacked blocks.
- 20 Provide & use correctly other suitable equipments such as safety harness or safety belts if barricates/lifelines cannot be provided, such as 'Travel Restraint System' consist of a safety belt or harness that is connected by a lanyard to a suitable anchorage point or static line to restrict the person movement and prevents him from approaching an unprotected edge.

SWP – 22A

SPECIAL SAFETY ATTENTION DURING BORED PILE WORKS WITHIN THE FLIGHT PATH / ZONE.

SAFE WORK PROCEDURE (Load Testing - Kentledge System)

- 1 To submit and get clearance from main contractor for all personnel deploy to the project's site
- 2 All workers whom work at the project site must attend "First day Induction Course" conducted by main contractor's safety personnel prior work.
- 3 Workers only allowed to consume food at designated places, and the leftovers must disposed off properly, to avoid attracting birds, dogs, cats & others wildlives.
- 4 Smoking are strictly prohibited on site.
- 5 To submit list of construction equipment for height clearance prior deploying and/or work commence.
- 6 All cranes/boring machines and silo to be installed a red steady light and a chequered flags of a type approved by the airport licensee at the heigest point
- 7 No littering are allowed and proper house keeping are necessary at all times within the site.
- 8 No burning of candles, joss stick, joss paper, etc on site.
- 9 The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA and site instructions to all workers through toolbox meeting.
- *10* The Hot work Permit from main contractor shall applied prior carry out any hot work on site.
- 11 Suspended loads shall be unloaded, engine shut down and ignition key should be removed from crane whenever the operator is absent from the machine.

SAFE WORK PROCEDURE - SAFETY ON USED OF EXCAVATOR

- I To submit work permits; relevant document and/or certificates prior to attend the 'Safety Induction Course' on site. No workers are allowed to enter the site and carry out any work without undergo the 'Safety Induction Course'
- 2 The safety personnel to conduct prior briefing and/or training of SWP, RA and site instructions to all workers of the relevant trade and/or job scope through first day at work orientation or toolbox meeting.
- 3 To apply permit to work and approval prior any operations of the machines.
- 4 Appoint and provide a banksman on site to guide the movement of excavator, banksman should equip with reflective vest; whistle and/or red flag for effective signalling.
- 5 Excavator operator should conduct daily check and enter the findings into the checklist and to report if found any unsatisfied conditions of the machines and/or surrounding work environment.
- 6 Machinery must be position and operated in a manner that will not endanger any person within the excavation work.
- 7 Excavation near underground facilities must be carried out manually using hand tools.
- 8 Excavator are provide and equip with side mirror for the blind spot, and the side mirror shall be maintain and are in good conditions.
- 9 Operator should remain within the cabin at all times during the process of work, if in any case, operator should ensure engine are switch off during lunch or off period or prior the maintenance and/or repair work.
- 10 At night or when dark, safety personnel to monitor and provide sufficient lighting for the work area. Banksman should be equip with highly reflective vest and 'traffic baton' at night for effective signalling.
- 11 PPE such as safety helmet with chin strap; safety boots; eyes and hand protection and highly reflective vest for banksman are to be provided and used, periodically check by safety personnel for wear and tear, change immediately once item found damaged.

SAFE WORK PROCEDURE - SAFETY ON REBAR CAGE FABRICATION

1. BENDING OF REBAR

- ~ Bending machine position properly and secure for rigidity, area to be keep clear access.
- \sim Ensure that all bending machines are checked and certified by LEW on monthly basis.
- All the diesel machine service will be every month from the supplier mechanics.
- ~ During the bending, hold the rebar in position and clear away from the bending radius
- \sim Only appointed and trained machine operators are allowed to operate the bending machines.
- ~ Rotating parts and pinching points are protected with guards before activating machinery.
- Work area to display signages and to barricade to warn non work personnel.

2. REBAR CAGE ASSEMBLY

- Where the rebar cage diameter is higher than one meter, i.e. people can enter into the cage for work, the bar chairs designed are use to prevent collapse of top bar during the cage fabrication.
- ~ All workers shall wear on proper PPE which includes of working hand glove.
- \sim Housekeeping within working areas are to be kept clean and tidy to prevent tripping hazard.

3. HOT-WORKS

- \sim To apply permit to work prior any hot works
- ~ Welding & Flame cutting are to be barricade and isolate from flammable materials.
- ~ Only trained and qualified welder with available welding certificate shall be engage for welding work.
- ~ Wear proper welding shield and gloves.
- ~ Ensure that functioning of the fire extinguishers and all flammable articles are removed from hotwork zone.
- Ensure that all welding machines are checked and certified by LEW every month and do not touch any intermediate or connected part or any equipment without any without knowing its electric status and to make sure adequate grounding at all times.
- ~ Ensure all gas cylinder are secured in upright position at all time.
- ~ Check regulators for leakage and replace immediately if it is faulty.
- ~ Check all hoses for leak and ensure securely join and fasten with approved types of clips.
- \sim Check cutting torch for damage , replace if necessary.
- \sim Ensure flash back arrestors are installed at both ends and are in working condition.

4. LIFTING WORKS

- ~ To apply Permit To Hoist prior all lifting activities by the site safety supervisor and/or site supervisor.
- ~ No crane shall be used or operated unless it has a valid Lifting Machine certificate.
- ~ Cranes shall be operated by only ' certified competence crane operators.
- All lifting works are to be supervised by qualified lifting supervisor, rigger & signaller and well coordinate, communicate between crane operator and signaller.
- During lowering the rebar, no worker are allowed to work or walk under the suspended load and lifting equipment area only used for lifting and not for pulling or dragging.
- All the lifting machines, lifting gears and lifting appliances must be with the available certificate of LM, LG and LA respectively.
- The lifting gears and lifting appliances must be in good working conditionandto be make sure by lifting supervisor.
- Rebar must be tie with steel wire before being lifted. This is to make more rigid and secure to the bundle
- ~ Tag line to be tie at both ends to control the movement of load.

Safety On Night Work

- *I* Adequate general lighting should be provided (by others) at the perimeter of the working zone including access or passageways.
- 2 Flood lighting should be installed or positioned in such a way to avoid direct or reflected glare as well as objectionable shadow.
- 3 General lighting should be position above working level and mounted as high as possible.
- 4 Traffic Controller equipped with control baton; reflective glove; highly visible green reflective ve to station at the strategic/safe location to control and guide all vehicular where necessary. Traffic controller to ensure no one should remain at the rear side of the moving vehicular.
- 5 The site safety supervisor and or site supervisor to conduct briefing of SWP, RA and site instructions to all workers through toolbox meeting prior work.
- 6 During toolbox meeting for night shift, safety personnel are to conduct visual check on all work personnel to use/put on basic PPE for all site personnel working at night (e.g. highly reflective vest). And to observe if anyone appears fatigue or ill.
- 7 All lifting works to be closely monitored at all time by lifting supervisor.
- 8 Whenever necessary, signalman/banks men shall be deployed to assist and direct the plant operate during the execution of operation
- 9 A safe means of access or egress must be provided.
- *10* All temporary road traffic signs; traffic cones; rotating lamps etc... are to be installed at conspicuous positions.
- 11 Supervisor in-charged to ensure all rotating lamps on heavy machineries (eg. Cranes, Rigs, Excavator) to maintain operational at all times.
- 12 Safety Personnel on duty to remind daily on the potential burn/ scald by contact with hot surface, liquid or steam (eg. radiator)
- 13 Safety Personnel to conduct site walk and inspection to identify if any opening exposed to falling hazard
- 14 Account for all personnel on site after each operation.

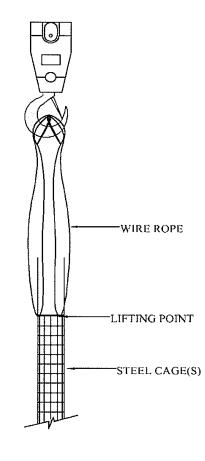
SAFETY ON LOWERING OF STEELCAGE(S)/REINFORCEMENT INTO BORED HOLE

- 1 Submission of capacity check for the Lifting Point to be used according to the steelcage/reinforcement design for the project accordingly.
- 2 Submission of the valid Lifting Machine Certificates after the inspection done by the 'Approved Examiner'
- 3 Submission of the valid Lifting Gear Certificates after the inspection done by the 'Approved Examiner'
- 4 Appointment of certified Lifting Team which inclusive of Lifting Supervisor; Crane Operator; Signaller & Rigger.
- 5 Appointment of certified Hot-work workers for the work.
- 6 To apply Permit-to-Work for Lifting and get approval prior the lifting operation
- 7 To apply Permit-to-Work for Hot-work and get approval prior the work.
- 8 Lifting Team to conduct check on LG (Lifting Gear) prior every used.
- 9 Lifting Supervisor to conduct visual check on the condition of the Lifting Point prior the rigging of the steelcage(s).
- 10 Use only suitable size and correct type of LG according to the weight of the load/steelcage to be lift/hoist.
- 11 Lifting Team to ensure and to alert others by using whisel if any work personnel within the premises to be keep clear from/of the lifting zone or swing radius of the crane.
- 12 Signalman to provide hand signal and ensure a clear visual contact with the crane operator during lifting of steelcage(s) from storage yard to the destinated bored hole, signalman shall ensure all hands are free from the load during the initial lifting of the steelcage(s) and adequate length/numbers of tag-line shall be used to assist and/or resist the load during the lifting process and/or during lowering the steelcage(s) into the bored hole.
- 13 No suspended load shall hoist over the work personnel at all times.
- 14 Only removed/discovered the 'welded mesh casing cover' when the steelcage(s) is ready to lower/install into the bored hole
- 15 NO workers should place their hand within the steelcages at all time during the process of lowering the steelcage(s)
- 16 Hand protection shall be use during handling of steelcages to prevent injury from any sharp edges
- 17 Use suitable length/appropriate size and adequate numbers of 're-bar stopper' accordingly for the steelcages to rest on the casing. Signalman should check if all hands are free from the pinching point prior to give signal to the crane operator.

(Note: A good practise of a sound/blow of whisel to alert others prior the hand signal should be observed)

- 18 Steps No.8 to No.17 will be repeated if more than one steelcages are required for the bored hole.
- 19 Workers to avoid bare-hand and a proper hand-tools shall be use as an aid during the lapping of steelcages. (eg. sledge hammer, short-rebar, webbing sling etc..)

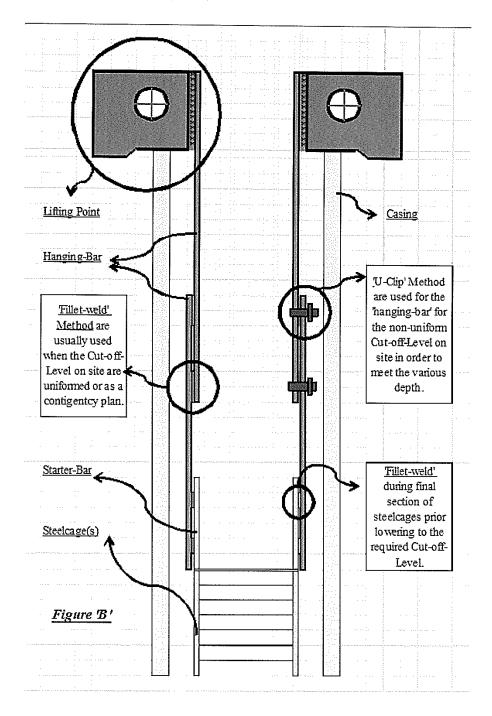
- 20 During any Hot-work the following safety measure shall be observed
 - To apply permit to work prior any hot works
 - ~ Welding & Flame cutting are to be barricade and isolate from flammable materials.
 - ~ Only trained and qualified welder with available welding certificate shall be engage for welding work.
 - ~ Wear proper welding shield and gloves.
 - ~ Ensure that functioning of the fire extinguishers and all flammable articles are removed from hotwork zone.
 - Ensure that all welding machines are checked and certified by LEW every month and do not touch any intermediate or connected part or any equipment without any without knowing its electric status and to make sure adequate grounding at all times.
 - ~ Ensure all gas cylinder are secured in upright position at all time.
 - ~ Check regulators for leakage and replace immediately if it is faulty.
 - ~ Check all hoses for leak and ensure securely join and fasten with approved types of clips.
 - ~ Check cutting torch for damage, replace if necessary.
 - \sim Ensure flash back arrestors are installed at both ends and are in working condition.
- '1-a During lowering of the final cage to the desire level within the bored hole, a suitable size and length of wirerope to be 'loop' over the lifting point (*see figure 'A'*) in order to prevent the cage from drop-off. Note: For Dry-Pile Method and/or piles with Cut-off-Level < 5 meter (less than 5 meter) - please see *figure-'A'*





SAFETY ON LOWERING OF STEELCAGE(S)/REINFORCEMENT INTO BORED HOLE

b For 'Tremie piles' or piles with deep cut off level > 5m (more than 5 meter), used minimum 2 hanger bars and to lower the steelcage(s) to the required Cut-off-Level. The size and lifting points on top of the hanger bars to be design by PE's. (see figure 'B')



SAFETY ON LOWERING OF STEELCAGE(S)/REINFORCEMENT INTO BORED HOLE

- 22 Lifting Supervisor to supervise during the process of lowering of the steelcage(s) should be smooth and steady and are not jerking.
- 23 Releasing/removed of the wire rope:

For 'Dry-Pile'

Wire rope to be removed only when concrete level near to the cut-off-level or reached approximately
 1 to 2 mtr below cut-off-level whereby the steelcages already hold/sustained by the concrete.

For 'Tremie-Pile'

- Wire rope will be removed only after the steelcage welded and supported at the temporary casing by using a 'hanging-bar' extended from the 'Starter-bar'.
- 24 During the releasing of the wire-rope, An appointed certified Signalman to give signal to the operator to lower the main-hoist hook block slowly and away from the work personnel and the casing/cast pile, follow by a Rigger to open up one end of each wire rope from the main hoist hook block, wire rope will be extract out fully and slowly by the crane from the bored hole.

Safety On Carry Out Work Within Confined Space

- *I* Ensuring that entrant are attend and received briefing from main contractor on the safety and health precautions to take during specific safety induction prior to entry and work.
- 2 Conduct risk assessments to identify all hazards, evaluate risk and planned mitigating measures.
- 3 Following the confined space entry permit system implemented on site by main contractor.
- 4 Ensuring entrant/workers are following entry and work procedures
- 5 Ensuring sufficient and suitable lighting are provided at the perimeter of the working zone including access passageways for entry into or work in a confined space.
- 6 Ensure adequate ventilation are provided to the confined space before entry and during work in confined space.
- 7 Ensure safe means of access to and egress from confined space are provided prior entry.
- 8 Ensuring that confined space attendance are appointed and make known to entrant or workers involved.
- 9 Ensuring permit-to-entry onto confined space are applied, approved, prior entry
- 10 The site safety supervisor and or site supervisor to conduct briefing of SWP, RA and site instructions to all workers through toolbox meeting prior work.
- 11 During toolbox meeting, safety personnel are to conduct visual check on all work personnel to use/put on provided appropriate PPE to reduce exposure to any residual risks. And to observe if anyone appears fatigue or ill.
- *12* Re-training or briefing the entrant/worker involved has demonstrated a lack of understanding of any safe work procedures.
- 13 Responsible personnel who are involved in confined space entry or work are been appointed.(Authorized Manager; Confined Space Safety Assessor; Confine Space Attendant; Rescue Personnel & Entrant(s))
- 14 Duties and Responsibilities of the key personnel are clearly stipulated and are briefed and understood.
- 15 Risk Assessment and Safe Work Procedure of the key personnel are clearly stipulated and are briefed and understood.
- 16 Only gas-proof lighting shall be used in confined or enclosed spaces unless the atmosphere has been proven to be non-flammable.

- 17 Only approved types of breathing apparatus as specified in the relevant statutory regulations shall be used.
- 18 A trained Confined Space Assessor / shall ensure persons working in confined or enclosed spaces are trained to perform assigned duties where the atmosphere has oxygen deficiency or contamination sufficient to requir respiratory protection shall be required to use safety harness and lifeline and shall be continuously attended whilst working in such spaces. He shall regularly check, maintain continuous communication and monitor th condition of the worker in such spaces and shall not be assigned any other duties.
- 19 No person should enter an unoccupied tunnel before checking that the ventilation system is working, that the atmosphere is monitored and is proven to be safe for entry.
- 20 Workers' exposure to airborne contaminants in any tunnel or shaft should not exceed the PEL of the contaminants as specified.
- 21 Testing should be conducted before the commencement of any work for the day and thereafter at least once in 6 hours.
- 22 If any lifting machine in used and lifting operation involved, it shall be comply to the WSH Acts
- 23 Lifting supervisor to conduct check/inspection for all lifting gear to ensure the good working condition and the validity of the LG certificates.
- 24 Where ladder is in use, ensure that all ladders are securely fixed, or held by a person, to prevent them from slipping.
- 25 Provide & use correctly other suitable equipments such as safety harness
- 26 Only A PE's design passenger hoist/cage will be provided to transport work personnel.
- 27 Ensure the relavant permit-to-work applied and approved.

Safety On Used of Mobile Elevated Work Platform (eg. Boom Lifts or Scirsor Lift)

- *I* To engage supplier of said MEWP to provide specific brand and model training for the appointed operator to ensure the competency.
- 2 To conduct visual check on MEWP parking platform and it should only be used on solid level surface.
- 3 The surface to be checked to make sure that there are no penetrates or obstructions that can cause uncontrolled movement or the platform to overturn.
- 4 MEWP in used to be clearly marked with a safe working load limit or maximum rate capacity not
- 5 Not be used in high wind conditions or where there is risk of lightning.
- 6 Provide personnal fall protective equipment (eg. full body harness)
- 7 Operators of boom lifts/Scissor lift to be properly trained and competent for the job.
- 8 A pre-operational inspection & fuction test on MEWP to be performed by trained operator before usage.
- 9 Only appointed operator are allowed to operate MEWP.
- 10 No unauthorised alternation or modification of MEWP or any of its safety devices or functions.
- 11 Barricade provided to the working platform shall be check and are in good condition to prevent person from fall.
- 12 To deploy outriggers where necessary accordingly to the requirement.
- 13 Operators working in boom lifts / Scissor lift to wear a suitably anchored safety harness. Anchorin to nearby poles or equipment outside the work platform is prohibited.
- 14 Operator to conduct check on surrounding prior menuver the MEWP, such as slopes or trenches.
- 15 No personnel/ workers should climb out of an elevated boom lift or scissors lift onto any elevated facility structure.
- 16 The use of planks, ladders or any other devices on the work platform for the purpose of achiving additional height or reach is prohibited.
- 17 No one shall remain on the work platform while during the menuver of boom lifts
- 18 No menuver are allowed at the extended scirssor lift
- 19 Always parked the MEWP at level surface and chocked the wheel if possible.
- 20 Kevs are removed during break time and during end of the day.

<u>SAFE WORK PROCEDURE – SAFETY ON CRANE and/or RIG OPERATION</u> <u>on Extended and/or Concrete Blocks Platform</u>

- *I* To apply Permit To Hoist prior all lifting activities by the site safety supervisor and or lifting supervisor.
- 2 Appointed crane/rig operator and safety supervisor to conduct daily check of the stability for the concrete blocks working platform prior work & every after heavy rain.
- 3 Lifting supervisor to conduct check/inspection for all lifting gear to ensure the good working condition and the validity of the LG certificates.
- 4 No crane shall be used or operated unless it has a valid Lifting Machine certificate.
- 5 Every crane shall be provided with safe working load indicator visible to the operator showing the safe working load corresponding to the radius of operation .
- 6 Every crane shall have a cut-off device warning overloading of the crane capacity.
- 7 Cranes shall be operated by only certified competence crane operators.
- 8 Effective control must be exercised at all stages of a lifting operation through the deployment of a competent Lifting Supervisor, a qualified signalman, a registered crane operator and trained riggers.
- 9 The site safety supervisor and or site supervisor to conduct prior briefing of SWP, RA and site instructions to all workers through toolbox meeting or first day at work orientation.
- 10 Understand the 'Safe Working Load' of slings, chains, shackles, etc. If you are in doubt, do not allow any lifting until it has been checked/advised by a qualified Lifting Supervisor.
- 11 Where ladder is in use, ensure that all ladders are securery fixed, or held by a person, to prevent them from slipping.
- 12 Provide & use correctly other suitable equipments such as safety harness or safety belts if barricates/lifelines cannot be provided, such as 'Travel Restraint System' consist of a safety belt or harness that is connected by a lanyard to a suitable anchorage point or static line to restrict the person movement and prevents him from approaching an unprotected edge.
- 13 To check on the crane working platform design by PE. and to ensure by the respective site safety supervisor or site manager.
- 14 Ensure workers are not allowed within the coverage of the crane swing area and keep a clearance between the rear counterweight and any object nearby or cordon off.
- 15 Suspended loads shall be unloaded, engine shut down and ignition key should be removed from crane whenever the operator is absent from the machine.
- 16 A PE's design passenger hoist/cage will be provided to transport workers up and down from concrete blocks platform

SAFE WORK PROCEDURE - SAFETY ON USED OF GENERATOR

- 1 The instructions that come with the generator must be followed strictly.
- 2 Never use a generator indoors, including enclosed or partially-enclosed areas.
- 3 Regular inspection would be conducted on Generator and Distribution box by the LEW.
- 4 To prevent electrical shock, make sure the generator is provided with earth rod and make it is Inserted deep enough into the ground. Barricade the earth point to prevent person accidentally touch/contact with it.
- 5 Proper power cords should be used. Overloaded cords can cause fires or equipment damage. Don't use multiple sockets in single outlet. Use only approved industrial type sockets.
- 6 Never refuel a generator while it's running, it may cause fire.
- 7 Before refuelling a generator, turn it down and let it cool down. Gasoline spilled on hot engine parts could ignite.
- 8 Turn off all equipment powered by the generator before shutting down your generator.
- 9 Fire extinguisher must be provided at the location where hot work is being carried out.
- 10 Generator shall be fenced and to be locked to prevent unauthorized entry of persons.
- 11 Generator current tapping point and DB box shall be locked and the key hold by . Authorized/Appointed Person
- 12 All electric wire and fittings shall be elevated and not allowed to lie on the wet ground.
- 13 All wires shall be elevated at least 5.2m above ground if it run across vehicular access.
- 14 All generator and DB box shall be maintained by equipment supplier's mechanic and obtain a Monthly maintenance certificate and kept available on site.
- 15 Brief all site workers that no person shall be allowed to do any connection / repair / alteration on equipment and fittings other than the designated mechanic and licensed electrical worker by appointed safety personnel.
- 16 Appointed safety personnel shall conduct briefing in daily tool box meeting that if any equipment found faulty, should not be used and report immediately to the supervisor.
- 17 Generator shall be equipped with fire extinguisher and supervisor shall brief all workers of fire fighting technique to act accordingly during emergency.

SAFE WORK PROCEDURE - STORAGE OF LUBRICATION OIL and/or HAZARDOUS MATERIAL

- 1 Storage of lubrication oil, hazardous material/chemical only at designated storage area given by main contractor.
- 2 Storage area for lubrication oil, hazardous material/chemical shall putting up a barricade or a proper fencing, equip with adequate nos of fire extinguishers. Near the storage area a 'Danger keep-out' signage, relevant SDS, a contact no. of the handler and first aider should be displayed.
- 3 A drip tray or a containment shall be provide at the base of the lubrication oil, hazardous material/chemical
- 4 A minimum safe distance betweens highly flammable / fire hazard from the storage area to the nearest hotwork zone should be considered.
- 5 Ventilation for the location of storage area shall be considered
- 6 Sufficientcy of the area for storage place
- 7 Selection of storage area should not be located at a low ground level to prevent from water ponding into the containment and lead to contamination of water course.
- 8 The construction of the storage area shall be reasonably good .
- 9 All lubrication oil, hazardous material/chemical should have label from the packaging, in any case if the label is not able to be observed, safety supervisor has to ensure a replacement to be label accordingly.
- 10 All relevant signages, SDS, fire extinguisher (if required), etc. shall be displayed.

SAFETY ON CARRY OUT WORK WITHIN SILO TANK (CONFINED AREA)

- I Ensuring that entrant are attend and received briefing from main contractor on the safety and health precautions to take during specific safety induction prior to entry and work.
- 2 Conduct risk assessments to identify all hazards, evaluate risk and planned mitigating measures.
- 3 Following the confined space entry permit system implemented on site by main contractor.
- 4 Ensuring entrant/workers are following entry and work procedures
- 5 Ensuring sufficient and suitable lighting are provided at the perimeter of the working zone including access or passageways for entry into or work into silo.
- 6 Ensure adequate ventilation are provided to the confined space before entry and during work into silo. Silo has to be purged for minimum 30 minutes prior entry or work activity
- 7 Asigned a "watch out man" to maintain contact with the entrant by visual or verbal communication.
- 8 Ensure safe means of access to and egress from confined space are provided prior entry. To include warning signages and only authorised personnel.
- 9 Ensuring that silo attendance" watch out man" are appointed and make known to entrant or workers involved.
- 10 Ensuring permit-to-entry & re-entry onto silo are applied, approved, prior commencement of entry
- 11 The site safety personnel and or site supervisor to conduct briefing of SWP, RA and site instructions to all workers through toolbox meeting prior work.
- 12 During toolbox meeting, safety personnel are to conduct visual check on all work personnel to use/put on provided appropriate PPE to reduce exposure to any residual risks. And to observe if anyone appears fatigue or ill.
- 13 Re-training or briefing the entrant/worker involved has demonstrated a lack of understanding of any safe work procedures.
- 14 Responsible personnel who are involved in silo tank entry or work are been appointed.
- 15 Duties and Responsibilities of the key personnel are clearly stipulated and are briefed and understood. (Watch men, Entrant, Gas tester, Site in-charge, Safety coordinator.)
- 16 Risk Assessment and Safe Work Procedure of the key personnel are clearly stipulated and are briefed and understood.
- 17 Only gas-proof lighting shall be used in confined or enclosed spaces unless the atmosphere has been proven to be non-flammab
- 18 Ensure access and eggress not blocked at all times.
- 19 A gas test shall be test shall be conducted prior to entry of the silo. And test before entry.
- 20 No person should enter an unoccupied silo before checking that the ventilation system is working, that the atmosphere is monitored and is proven to be safe for entry.
- 21 Workers' working shall be provided with safety goggles or glasses to protect their eyes from debris.
- 22 Testing should be conducted before the commencement of any work for the day and thereafter at least once in 8 hours.
- 23 Ensure the relavant permit-to-work applied and approved.

SAFE WORK PROCEDURE - SAFETY ON CHANGING OF BORING TOOLS

- 1 Boring Tools to be position and rest firmly on ground.
- 2 Banks man must signal to boring operator to stop machine prior removing the boring tool.
- 3 Banks man to signal operator using hand signal and whistle.
- 4 Operator to position boring tools on firm and stable ground.
- 5 The position of the boring tools shall be relatively at a level where the worker can reach comfortably
- 6 To use both hands at any time possible.
- 7 Ensure worker is working and standing on firm ground.
- 8 Worker to spread their leg width apart to create a more supported standing posture.
- 9 When pulling out pin workers is advised not to do any jerking motion.
- 10 Workers to fully concentrating while conducting activity not to be engrossed in other activity such as using handphones.
- 11 Workers hands are off or stay away from any contact of holding to kelly pins or boring tool while spining or lifting up of kelly bar.
- 12 Prevent any motion of swing or dropping the kelly pin after extracting.
- 13 To provide a proper handle of kelly pin.
- 14 To always use working hand glove while completing task.

SAFE WORK PROCEDURE - SAFETY ON HANDLING OF DRILING FLUID

- 1 To ensure the availability of the relevant SDS on site
- 2 To place or display the said SDS at the workplace or near the plant whereby 'appointed workers' (waterman) can easy access.
- 3 Site supervisor to brief the SDS to the appointed waterman and keep proper records.
- 4 Supervisor to provide suitable PPE (ie. rubber glove, dusk mask, eye protection, etc.) or follow the product's recommendations to the appointed 'waterman' prior deployment to the task.
- 5 Supervisor to brief the hazard and risk identified to the appointed 'waterman' prior work.
- 6 Supervisor to brief the safe work procedure to the appointed 'waterman' prior work.
- 7 Appointed 'waterman' shall always used the PPE provided (ie. rubber glove, dusk mask, eye protection, etc.) at all time during carry out work or whenever contact with the drilling fluid.
- 8 Appointed 'waterman' shall practice his/her individual personal hygiene by washing hand every before meal, after handling the products and during end of the day.
- 9 Appointed 'waterman' shall removed all products waste or package waste regularly or by every end of the day to prevent others slip, trip & fall. And also potential of mosquitoes breeding ground.
- 10 Appointed 'waterman' to ensure the stacking of the products are in safe manner and it should free from toppling hazard.

PERMIT-TO-WORKS

PTW-01: PERMIT TO WORK AT HEIGHT

Project Title :								
Note: This Permit-to-V	Vork is valid for <u>N</u>	laximum of 7 days	from the time of appr	oval subjected to		1		
no change of work met	hod & work cond	ition. otherwise, thi	s permit may be with	lrawn at anytime.	Permit No.:			
· · ·		Part 1 : Applica	tion - To Be Comp	lete By Applicant			·	
Applicant Company:								
Name of Applicant:				(Supervisor of the	person who is car	ry out	work	-
*Safety/Scaffold Sup	pervisor Name:			_Man-Cage LG No				/
Location of Work:				_ 0	<u> </u>			-
Description of work	to be done:							-
Duration of Work:		e & Time)	To (I	Date & Time)	.T	otal of		- Days
Safe	ty requirements to	be complied with, P	rior Application of Per	mit To Work at Heigh	· ·	Y	N	NA
1. Safety guardrail / pro						-		
2. Full body harness / safety belts are inspected and in good condition before use								
3. SWP, RA for working at height and related hazard was briefed prior commence of works.								
4. Provision of Warnin	g Signage & Barri	ers						
5. Provision of Full boo		-	sorbers to be incorpor	rated.				
Ladders are securely		-						
7. PE's design passenge	the second se							
8. Lifelines to be provid					ts			
9. PPE such as working		lmet, safety shoes,	Full body harness/ bel	ts are provided				
10. Scaffold to be certif	fied safe use.							
					Date:			
Name & Sign	ature (Supervisor of	the person who is car	ry out work)	-	Time:			
Part 2 : Inspect	& Assess - (*B)	Sub-Contracto	r's Competent Per	son / *By Main-Co	entractor's Com	etent	Perso	
~ <u>Assessed</u> that all reason								
~*We (Assessor & Super								ed
that the Permit To Wor	k can be carried ou	t the due regard to t	he safety & health of w	orker and/or other pe	rsons who may be aff	fected.		
		Date:				Date:		
Name & Signature of Safe	ty Assessor	Time:	Name & Signature (Su	pervisor of the person who	s carry out work)	Time:		
Part 3 : Approv	/al - (*By Sub-	Contractor's Pro	oject Manager / *B	y Main-Contracto	r's Project Mana	iger/D	eputy	7)
~I satisfied that there ha	s been a proper eva	uluation of the risk S	k hazards	~I shall continually r	eview the progress of	all PT	W area	۱,
~I satisfied that no incon	-	••		the work are carried	•			
~I satisfied that all reaso	-	neasures have been t	taken to ensure	~I satisfied that all pe	-		k are	
the safety and health of	the persons.			informed of the haz:	ird associated with it	•		
N	ame & Signature	of Project Manager	•	-	Date:			
	-				Time:	_		
			. (By the Supervis					
~The above mentioned w	ork has completed	Housekeep	ing has been carried or	ıt.	~Work area is safe f	or othe	r perso	nnel.
					_			
Name & Signati	re (Supervisor of	the person who is a	rarry out work)	-	Date:			
	•••		2		Time:			
Par			he Supervisor of the	1)		
	Day-2	Day-3	Day-4	Day-5	Day-6	<u> </u>	Day-7	/
Sign: Work Supervisor								
Sign: Assessor						├		
Date: Note: * Please delete acc	L	Remarks:	Ist Original-Applicant	<u> </u>	3rd Copy-Assessor/Si	te Com	,	
		itemaras.	2nd Copy-Display at V		4th Copy-Person App			

PTW-02: PERMIT TO WORK FOR HOT WORK

Project Title :										
Note: This Permit-to-Wo	ork is valid for <u>Maximum c</u>	of 7 da	ays fro	om the	time of approval su	bjected to		1		
no change of work method	od & work condition, other	rwise	, this p	permit	may be withdrawn a	at anytime.	Permit No.:			
a da esta esta esta esta esta esta esta est	Part 1	: Ap	plica	tion	- To Be Complete	By Applicant	······································			
Applicant Company:										
Name of Applicant:						(Supervisor of the	person who is car	ry out	worl	- k)
Name of Appointed H	ot Work Worker:					Location of Work	-	•		<i>,</i>
Description of work to	be done:					-	·			-
Duration of Work:	From (Date & Time)				To (Date & '	Гіте)	.Total of		Day	- s
	Safety requirements to									
Welding & Flan	ne Cutting Works	Y	N	NA		ing & Flame Cutting		Y	N	NA
1. Competentcy of Hot W	Vork Worker			12. Gas regulator in good condition						
2. Full body harness / saf	fety belts are inspected and	l in go	ood co	nditic	13. Cylinder in upri	ght position & secure	ed			
3. Area clears of combus						d & warning sign dis				1
4. Adequate ventilation						afety Shoes, Full boo				
5. Face shield, Hand glov	ves, Eye protection.		1			ors in use & in good				
6. Electrode holder in go	od condition				17. 'O' clips used to					
7. Cables are free from w	vater/ sharp edges				18. Fire extinguishe	r available				
8. Cables are free from tr	ipping hazard.				19. SWP, RA or rel	ated hazard are briefe	ed			
9. First aid box					20. Equipment chec	k for leakage				
10. No incompatible wor	ks at surroundings				22. No smoking or r	naked flame				
11. Work access & platfo	orm provided				23. Sparks fly are fr	ee from flammable su	ubstance			
Part 2 : Inspect ~ <u>Assessed</u> that all reasonal ~*We (Assessor & Supervi that the Permit To Work of Name & Signature of Safety Part 3 : Appro	val - (*By Sub-Contra	Contr ve bee Inspec egard Date: Time:	racto en take eted th to the 's Pro	r's C en to e e wor! safety	ompetent Person nsure the safety and h k area & its surroundi / & health of worker a Name & Signature (Su Manager / *By M	nealth of the persons a ing where the work to and/or other persons v pervisor of the person who [ain-Contractor's	t the point of assessme be carry out and are who may be affected.	nt Per ent. satisfic Date: Time:	ed 1ty)	
~I satisfied that there has	been a proper evaluation of	the ri	sk & 1	lazard	s	~I shall continually r	eview the progress of	all PT	W are	:a,
-	atible work which may pose					the work are carried	-			
	able practicable measures h	ave be	een tal	cen to	ensure	-	erson who carry out th		k are	
the safety and health of the	ne persons.					informed of the haz	ard associated with it.			
						-	Date:			
	Name & Signature of Proj	ect M	lanage	er			Time:			
Part 4 : M	Notification of Work C	omp	letior	1. (B	y the Supervisor (of the person who	is carried out wo	rk.)		
~The above mentioned wo		•			oing has been carried		~Work area is safe fo		r pers	sonnel.
						_	Date:			
Name & Signa	ture (Supervisor of the per	rson v	vho is	carry	out work)	<u>.</u>	Time:			
Pai	rt 5 : Daily Check & S	ign ((By t	he S	upervisor of the p	erson who is carri	ied out work.)			
	Day-2	_	Day-3		Day-4	Day-5	Day-6		Day-7	7
Sign: Work Supervisor										
Sign: Assessor										
Date:								[
Note: * Please delete accor	dingly.		Rem	arks:	Ist Original-Applicant 2nd Copy-Display at V		3rd Copy-Assessor/Sit 4th Copy-Person App			

PTW-03: PERMIT TO WORK FOR LIFTING/HOIST OPERATION

Project Title :	
Note: This Permit-to-Work is valid for Maximum of 7 days from t	time of approval subjected to
no change of work method & work condition. otherwise, this perm	may be withdrawn at anytime. Permit No.:
	o Be Complete By Applicant
Applicant Company:	
Name of Applicant:	LM No.Involved:
Name of Appointed Lifting Operator:	Name-Rigger:
Name of Lifting Supervisor:	Name-Signaler:
Location of Work:	
Description of work to be done:	
Duration of Work: From (Date & Time)	To (Date & Time) Total of Days
Safety requirements to be complied with, Prior Application	f Permit To Work for Lifting/Hoist Operation. Y N NA
1. To check the validity of the license of the appointed lifting cran	perator
2. Valid LG certificates & inspected in good condition before use.	
3. SWP, RA for lifting/hoist operation and related hazard was brie	l prior commence of works.
4. Provision of Warning Signage & Barriers	
5. Crane sitting on stable ground condition.	
6. Team of Qualified Lifting Supervisor, Rigger & Signalman are	pointed & present
7. Valid LM certificates for crane	
8. Crane operator aware of the SWL for the lifting machines in use	
9. Crane operator has conduct the daily check/inspection for the li	ig machines in use.
	Date:
Name & Signature (Supervisor of the person who is carry out	
· ·	· · · · · · · · · · · · · · · · · · ·
Part 2 : Inspect & Assess - (*By Sub-Contractor's Contractor's Contra	npetent Person / *By Main-Contractor's Competent Person)
\sim <u>Assessed</u> that all reasonable practicable measures have been taken to	
that the Permit To Work can be carried out the due regard to the safe	rea & its surrounding where the work to be carry out and are satisfied
that the retaint to work can be carried out the dae regard to the san	a nearth of worker and/or other persons who may be affected.
Date:	Date:
	& Signature (Supervisor of the person who is carry out work) Time:
	anager / *By Main-Contractor's Project Manager/Deputy)
~I satisfied that there has been a proper evaluation of the risk & haza	
~I satisfied that no incompatible work which may pose a risk to the of	
~I satisfied that all reasonable practicable measures have been taken t the safety and health of the persons.	insure ~I satisfied that all person who carry out the work are informed of the hazard associated with it,
the safety and nearly of the persons.	anormed of the nazard associated with it.
	Date:
Name & Signature of Project Manager	
	he Supervisor of the person who is carried out work.)
~The above mentioned work has completed.	een carried out. ~Work area is safe for other personnel.
	Date:
Name & Signature (Supervisor of the person who is carry o	work) Time:
	ervisor of the person who is carried out work.)
Day-2 Day-3	Day-4 Day-5 Day-6 Day-7
Sign: Work Supervisor	
Sign: Assessor	
Date: Note: * Please delete accordingly. Remarks: 1st C	ginal-Applicant 3rd Copy-Assessor/Site Copy
	py-Display at Work Area 4th Copy-Person Approved PTW
	in copy religing the

Form-03_PTW LIFTING/HOIST OPERATION

Page 1 of 1

PTW-04: PERMIT TO WORK FOR BORING/PILING OPERATION

Project Title :	
Note: This Permit-to-Work is valid for Maximum of 7 days from the	e time of approval subjected to
no change of work method & work condition. otherwise, this permit	may be withdrawn at anytime.
Part 1 : Application - 7	To Be Complete By Applicant
Applicant Company:	
Name of Applicant:	(Supervisor of the person who is carry out work)
Name of Appointed Operator:	LM No.Involved:
Location of Work:	
Description of work to be done:	
Duration of Work: From (Date & Time)	To (Date & Time)Total of Day
Safety requirements to be complied with, Prior Application o	f Permit To Work for Boring/Piling Operation. Y N NA
1. To check the validity of the license of the rig/crane operator	
2. Full body harness / safety belts are inspected and in good condition	
3. SWP, RA for boring/piling operation and related hazard was brief	ed prior commence of works.
4. Provision of Warning Signage & Barriers	
5. Rig/Crane sitting on stable ground condition.	
6. Banksman and/or competent signalman are assigned to assist the b	poring/piling operation.
7. To check the validity of the LM certificates.	
 Rig/crane operator aware of the SWL for the boring/piling machin PPE such as working gloves, safety helmet, safety shoes, Full bod 	
10. Rig/crane operator has conduct the daily check/inspection for the	
10. Regenate operator has conduct the dairy eleck hispection for the	e ooring/pring machines in use.
	Date:
Name & Signature (Supervisor of the person who is carry out wo	rk) Time:
Part 2 : Inspect & Assess - (*By Sub-Contractor's Con	npetent Person / *By Main-Contractor's Competent Person)
$\sim \underline{\text{Assessed}}$ that all reasonable practicable measures have been taken to en	
	area & its surrounding where the work to be carry out and are satisfied
that the Permit To Work can be carried out the due regard to the safety	& health of worker and/or other persons who may be affected.
_	
Date: Name & Signature of Safety Assessor Name d	Signature (Supervisor of the person who is carry out work)
1 ime:	
Part 3 : Approval - (*By Sub-Contractor's Project M	anager / *By Main-Contractor's Project Manager/Deputy)
~I satisfied that there has been a proper evaluation of the risk & hazard	
~I satisfied that no incompatible work which may pose a risk to the other	
~I satisfied that all reasonable practicable measures have been taken to o	
the safety and health of the persons.	informed of the hazard associated with it.
	Deta
Name & Signature of Project Manager	Date:
	Time:
	he Supervisor of the person who is carried out work.)
~The above mentioned work has completed. ~Housekeeping has b	een carried out. ~Work area is safe for other personnel.
	_
Name & Signature (Supervisor of the person who is carry out	Date:
	1 mie:
	ervisor of the person who is carried out work.)
Day-2 Day-3	Day-4 Day-5 Day-6 Day-7
Sign: Work Supervisor	
Sign: Assessor	
Date: Note: * Please delete accordingly. Remarks: 1st Orig	ginal-Applicant 3rd Copy-Assessor/Site Copy
	py-Display at Work Area 4th Copy-Person Approved PTW

Form-04_PTW BORING OPERATION

Page 4 of 6

PTW-05: PERMIT TO WORK FOR EXCAVATION OPERATION

Project Title :								
Note: This Permit-to-V	Vork is valid for]	Maximum of 7 days f	from the time of appro	oval subjected to	D 1.27			
no change of work met	hod & work con	lition. otherwise, this	s permit may be with	lrawn at anytime.	Permit No.:			
1.00 Mar.	<u>, status sus sus st</u>	Part 1 : Applica	tion - To Be Comp	lete By Applicant	······································			
Applicant Company:								
Name of Applicant:				(Supervisor of the	person who is car	ry out	work	-
Name of Appointed	Excavator Oper	ator:		Location of Work		5		•
Description of work	to be done:			-				-
Duration of Work:	From (Da	te & Time)	Το (Ι	Date & Time)		otal of		- Days
Safety requi	rements to be com	plied with, Prior App	lication of Permit To V	Vork for Excavation O	peration.	Y	N	NA
1. To check the compet	ency and validity	of the license of the	excavator operator					
2. Ladders, stairways o	r proper excess p	rovided in trench of	more than 1.2m depth	1				
2. Full body harness / safety belts are inspected and in good condition before use								
4. Warning signs provided & positioned at conspicuously locations.								
5. Open sides of excava	ation are guarded	by adequate and effe	ective barricades (Mir	nimum 1.1m height)				
6. Shoring to excavated								
7. Shoring for excavate								
8. Materials kept away								
9. PPE such as working								
10. Operator has condu				use.				
11. Location of live pip	es or energy sou	rce has been pre-dete	mined					
				_	Date:			
Name & Sign	ature (Supervisor o	f the person who is carr	ry out work)	-	Time:			
Part 2 : Inspect	& Assess - (*B	v Sub-Contractor	's Competent Per	son / *By Main-Co	ntractor's Comp	etent	Perso	n)
~ <u>Assessed</u> that all reason								
~*We (Assessor & Super								d
that the Permit To Wor								
		Date:				Date:		
Name & Signature of Safe	ty Assessor	Time:	Name & Signature (Su	pervisor of the person who i	s carry out work)	Time:		
Part 3 : Approv	/al - (*By Sub	-Contractor's Pro	i ject Manager / *B	y Main-Contracto	r's Project Mana	ger/D	eputy	<i>י</i>)
~I satisfied that there ha				~I shall continually ro				
~I satisfied that no incon	apatible work whi	ch may pose a risk to	the others at work.	the work are carried	out safely.			
~I satisfied that all reaso	nable practicable	measures have been t	aken to ensure	~I satisfied that all pe	rson who carry out tl	ie worl	k are	
the safety and health of	the persons.			informed of the haza	rd associated with it.			
	ana & Signature	of Project Manager		-	Date:			
IN IN	ame & Signature	of Project Manager			Time:			
Part 4 : N	otification of V	Work Completion	. (By the Supervis	or of the person w	ho is carried out	work	.)	
~The above mentioned w	ork has complete	1. ~Housekeepi	ng has been carried ou	ıt.	~Work area is safe fo	or other	r perso	nnel.
				-	Date:			
Name & Signatu	ire (Supervisor o	f the person who is c	arry out work)		Time:			
Par	t 5 : Daily Ch	eck & Sign (By t	he Supervisor of th	ne person who is c	arried out work.)		
	Day-2	Day-3	Day-4	Day-5	Day-6		Day-7	
Sign: Work Supervisor								
Sign: Assessor								
Date:								
Note: * Please delete acc	Note: * Please delete accordingly. Remarks: 1st Original-Applicant 3rd Copy-Assessor/Site Copy							
			2nd Copy-Display at V	Work Area	4th Copy-Person Appr	oved P	TW	

Form-05_PTW EXCAVATION OPERATION

Page 5 of 6

PTW-06: PERMIT TO WORK FOR DEMOLITION WORKS

Project Title :		· · · · · · · · · · · · · · · · · · ·						**
Note: This Permit-to-W	ork is valid for <u>N</u>	1aximum of 7 days f	rom the time of appr	oval subjected to		1		
no change of work met	hod & work cond	ition. otherwise, this	permit may be with	lrawn at anytime.	Permit No.:			
	and the second states of	Part 1 : Applic	cation - To Be Co	nplete By Applica	nt			
Applicant Company:								
Name of Applicant:				(Supervisor of the	person who is carry ou	t worl	с) ()	-
Description of work	to be done:			Location of Work			-)	
Duration of Work:		e & Time)	T	-				-
Duration of Work.		e & Time)	10(Date & Time)	.Total o	f	Days	8
				To Work for Demolit	ion Works	Y	N	NA
1. Trained and Compete								
2. SWP & Method State				umented prior comm	ence works?			
3. Electricity, PUB, Tel								
2. Full body harness / safety belts are inspected and in good condition before use								
				?				
6. Engineer I/C for dem								
7. Glass, CU-units & ot								
8. Safety screen around								
9. Safe means of access			d safe to access?					
12. Propping done at le			······································					
13. External protective								
12. Water pumps and he								
13. Demolition area cor			<u> </u>					
14. Excavator Operators	s & Workers are p	provided with require	ed PPE and worn pro	perly?				
					Date:			
Name & Signa	ture (Supervisor of	the person who is carr	y out work)	-	Time:			
Part 2 : Inspec	t & Assess - (*	By Sub-Contract	or's Competent P	erson / *By Main-	Contractor's Compete	ent Pe	rson)
					sons at the point of assessa			,
~*We (Assessor & Super	visor of the person) / I, have <u>Inspected</u> t	he work area & its su	rounding where the w	ork to be carry out and are	e satisfi	ed	
that the Permit To Worl	c can be carried ou	it the due regard to th	ie safety & health of w	orker and/or other pe	rsons who may be affected.			
		Date:				Date:		
Name & Signature of Safe	ty Assessor	Time:	Name & Signature (Su	pervisor of the person who	is carry out work)	Time:		
Part 3 : Appr	oval - (*By Su	b-Contractor's P	roject Manager /	*By Main-Contra	ctor's Project Manage	r/Dep	uty)	
~I satisfied that there has	s been a proper ev	aluation of the risk &	hazards	~I shall continually r	eview the progress of all PI	W are	a,	
~I satisfied that no incom	ipatible work whic	h may pose a risk to t	he others at work.	the work are carried	l out safely.			
~I satisfied that all reaso	nable practicable i	neasures have been ta	tken to ensure	~I satisfied that all po	erson who carry out the wo	rk are		
the safety and health of	the persons.			informed of the haz	ard associated with it.			
				-	Date:			
Ň	ame & Signature	of Project Manager			Time:			
Part 4 :	Notification of	f Work Completio	on. (By the Super	visor of the person	n who is carried out w	ork.)		
~The above mentioned w	ork has completed	. ~Housekeepin	ng has been carried ou	t.	~Work area is safe for oth	er pers	onnel.	
					Date:			
Name & Signatu	re (Supervisor of	the person who is ca	arry out work)		Time:			
P	art 5 : Daily C	Check & Sign (By	the Supervisor o	f the person who i	s carried out work.)			
	Day-2	Day-3	Day-4	Day-5	Day-6		Day-7	
Sign: Work Supervisor								
Sign: Assessor								
Date:			l					
Note: * Please delete acco	ordingly.	Remarks:	1st Original-Applican		3rd Copy-Assessor/Site Cop	•		
			2nd Copy-Display at V	WORK Area	4th Copy-Person Approved	r i W		
		Form-0	6_PTW DEMOLITION	WORK		Page 6	of 6	

Forms: A to M

DAGON CONSTRUCTION COMPANY LIMITED

Form A (Group Induction)

SAFETY ORIENTATION & SAFETY INDUCTION TRAINING

PRC	DJECT/LOCAT <u>ION:</u>							
COM	MPANY :		DATE :					
CON	CONDUCTED BY:			DESIGNATION:				
SIG	SIGNATURE : TIME (Started-End) :							
	SUBJECTS:							
1) 2) 3)	 Please be informed that the workers listed below have been undergone the first day safety induction training & safety orientation and was made known of the company's OH&S policy statement, in-house rules regulations of the worksite and duty & responsibilities by safety supervisor and/or site supervisor in-charged They have been issued and/or checked are with appropriate basic PPE (Personnal Protective Equipment), 							
	prepareness, environmental control, site security system etc							
S/N	NAME OF WORKER	Γ	ID No.		SIGNATURE			
1								
2								
3								
4								
5								
6								
7								
8								
9								
10		-						
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Note: Photo-copy of NRIC/WP/S-Pass/EP & CSOC certificates shall be accompanied with this form.

DAGON CONSTRUCTION COMPANY LIMITED

<u>Form A.01 (Individual Induction)</u> SAFETY ORIENTATION & SAFETY INDUCTION TRAINING							
PROJECT / SITE LOCATION:	SAFETT INDUCTION TRAINING						
COMPANY NAME :	TRADE / WORK SCOPE :	_					
WORKER'S FULL NAME :	NRIC / FIN No.;						
INDUCTION DATE :							
CON	TENT :	\checkmark					
A) OH&S POLICY STATEMENT	C) DUTY & RESPONSIBILITIES						
B) IN-HOUSE RULES & REGULATION	D) PENALTY / DISCIPLINARY SYSTEM (If Any)						
1. P.P.E.	14. ² Avoid overloading						
2. PREVENTION OF FALLS FROM HEIGHT	15. GOOD HOUSEKEEPING						
3. A LADDER SAFETY	16. CESS & EGRESS						
4. 👬 🛱 📗 VEHICLE SAFETY	17. NO HORSEPLAY						
5. PREVENTING COLLAPSE	18. Means C SAFETY SIGNS						
6. ELECTRICAL SAFETY	19. TRSONAL HYGIENE						
7. TO CONFINED SPACES	20. NOISE & DEHYDRATION						
8. LIFTING OPERATIONS	21. REPORT INJURIES						
9. SIGNALING FOR LIFTING OPERATION	22. REPORT HAZARDS						
10. CORRECT USE OF TOOLS & EQUIPMENT	23. FIRE SAFETY						
11. SAFETY & EMERGENCY STOP FEATURES	24. 🦓 🚲 OPERATING OF FIRE EXTINGUISHER						
12. TOOLS & EQUIPMENT CONDITION	25. KNOW YOUR FIRE SAFETY PROVISION						
13. LOOKING AFTER YOUR BACK	26. KNOW YOUR EMERGENCY PROCEDURES						
X. Others	Y. Others						
 A. I have been undergone the first day safety induction training & safety orientation and was made known of the company's OH&S policy statement, in-house rules & regulations of the worksite and also my duty & responsibilities as individual. B. I was also briefed on the general safety awareness, occupational health hazard, emergency preparedness, environmental control, site security system etc C. I acknowledge & declare that I understood all the content of the above that was briefed. 							
SIC ATTENDEE (NAME OF WORKER):	SIGNATURE:						
(Note: A reasonably clear photocopy of <u>NRIC/WP/S-Pass/EP</u> & <u>CSO</u>	(Note: A reasonably clear photocopy of NRIC/WP/S-Pass/EP & CSOC & Relevant Trade Certificates shall be accompanied with this form.)						
SIC CONDUCTED BY (NAME):	SIGNATURE:						
DESIGNATION: Safety Supervisor	Site Supervisor In-charged. (Others, Specify)						
(Note: A copy of Item A.B.C & D and Others Relevant Documents the	at use for this SIC shall be accompanied with this form.)						

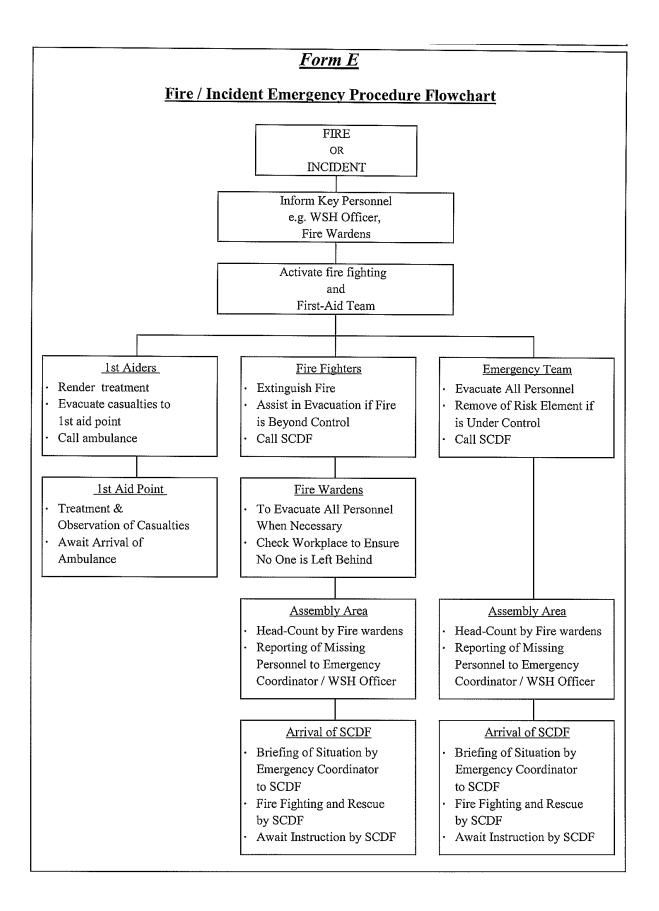
<u>Form B</u> TOOLBOX MEETING

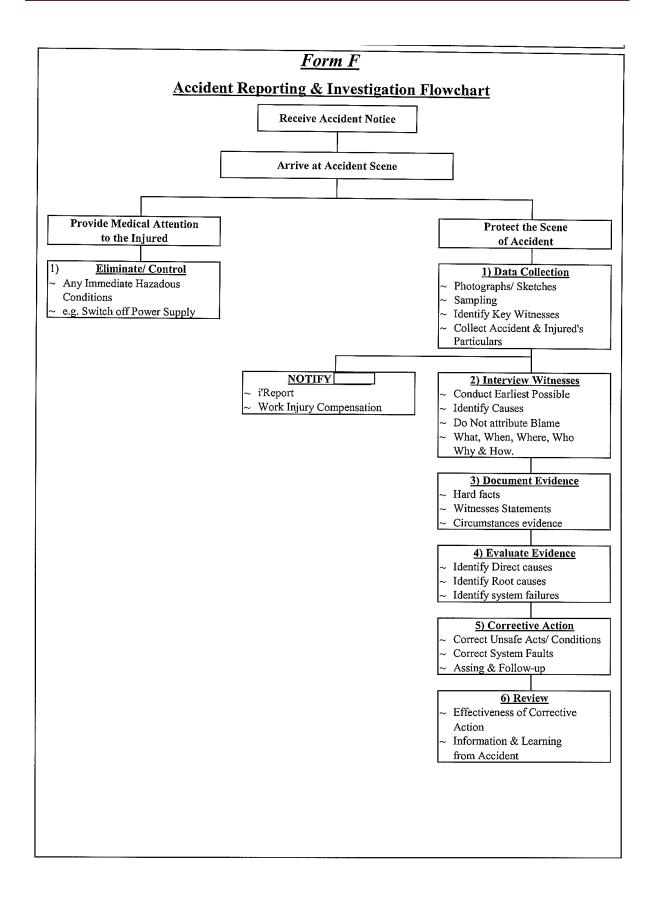
PROJECT/LOCATION	:								
COMPANY :		D/	ATE :						
CONDUCTED BY:		DI	ESIGNATION:						
SIGNATURE :		TJ	TIME (Started-End) :						
S/N Subjects Discusse	ed: (eg. SWP, Risk & Hazard Associated with the	e task / work)							
S/N	NAME OF WORKER		ID No.	SIGNATURE					
1									
2									
3	<u>.</u>								
5									
6									
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	Feedbacks :								
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Form C - MAINTENANCE & SERVICING REPORT

	MAINTENANCE OF M	IACHINERIES/ EQUIPN	MENTS /	CRANES / BORING	UNITS or RIGS
	Project Site :				MONTHLY
	Model of Machines/Equipment	ıt			3-MONTHLY
	Company I/D No:				
	Serial No. :			Month of Servicin	g:
S/N	ITEM CHE	CKED	- 	CHECK FOR	REMARKS
1	Wirerope:	~ Main Line	1		
		~ Single Line			
		~ Back Boom		·	
2	Lifting Hook		-	ana	
3	Rope Drum				
4	Rope Pulleys & Securing Pins				
5	Brakes	~ Winch	-		
		~ Clutch Linen			
6	Gears				
7	Rollers:	~ Swing			
		~ Under-Carriage			
8	Running surface	~ Track Shoe			
		~ Track Chain			
9	Shafts & Axles		-		
10	Crane Boom	~ Appearance			
11	Frame Work	~ Walkway, Unit Base	1		
12	Welding or other fastening devic		1		
13	Instruments working condition		-		
14	Engine Oil / Filter				
~	Radiator Water				
~	Battery (Water)				
~	Fan Belt				
~	Air Cleaner				
~	Hydraulic Oil / Filter	-			
~	Transmission oil filter				
~	Gear Oil				
~	Diesel Tank / Filter				
15	Others		-		
√	Satisfactory	Serviced & Report by :			
х	Not Satisfactory				
NA	Not Applicable	•	-	(Mechanic's Na	me & Signature)
		•			
	Report Reviewed by :				
		(Destination)		(Name &	Signature)

			Form D - DAILY MAINTENANCE CHECKLIST	Q	DA	IIV	MA	IIN	5NA.	NCE	CH	ECN	<u>(LIS</u>	E									PWC	PWC-OR-08 (REV-03)	8 (RI	51-03
FOR CHECK ON :		GEN	GENERATOR	OR			VIBR	VIBRO-HAMMER	MMEI	2		_	WELDING SET	ING S	ET				MOBILE CRANE	LE C)	RANE					
		EXC	EXCAVATOR	OR			AIR	AIR-RECEIVER	SIVER				BORING UNIT	VG UN	TU		\square] B(BORING MACHINE	G MA	CHIN	Э		П		
MACHINE/EQUIPMENT LM or ID No:	r ID No:																									
:HINOM																										
Date	1 2	3	4	5 6	7	8	6	10 1	11 12	2 13	14	15	16	17 1	18 19	9 20	21	22	23	24	25	26	27 2	28 2	29 3	30 31
Check																					AUGUATA	200255 1016000	3922/28 2016515	200000	1200005	3389Z
1. Water level/conditions								_																		
2. Oil level/conditions																										
3. Leakage																										
4. Fan belt																										
5. Filters																									-	
6. Radiator																										
7. Starting & exhaust pipe																										
8. Hydraulic oil level																										
Pump working conditions																										
10. Battery water/conditions								_																		
11. Diesel																										
12. Conditions of equipment																							_			
13. Others																										
Check By:																										
Name:																										
Signature:																										
PROJECT SITE:				-	-		-			-]		1	-	-	-					-	1			-	-
PROTECT SITE.					.												Revi	Reviewed By:-	By:-	I		Mama	/Giong	The A	1040	
THOTEL STIF.																					-	naille	BIIGIC/	(Naure/Daugueure/Daug)	Jaic)	





			Form C	
	INCIDE	NT/ S	<u>Form-G</u> AFETY ANALYSIS REPORT	
1.	TYPES OF INCIDENT TO BE REPORT:			
	Accident Report	[]. []	Unsafe Act / Unsafe Condition	
	Dangerous Occurrence			
	Near Miss Incident		Safety Infringement Report	
	· Near Miss Incident		• Others	
2.1	[#] PARTICULARS OF INJURED PERSON	/ PER	SON INVOLED	
•	Name of Company	:		
•	[#] Full Name (Injured Person/Person Involved)	:		• Sex :
•	[#] WP/ EP/ NRIC No.	:		• Age :
•	Resident Address	:		
•	# Occupation/ Trade/ Site Appointment	:		• Date of Birth :
•	Date Joined Company	:		Contact No:
	[#] PARTICULARS OF INJURED PERSON		SON INVOLED	
•	Name of Company / WP Employer:	:		
•	[#] Full Name (Injured Person/Person Involved)	:		
•	 # WP/ EP/ NRIC No. 	:		
•	Resident Address	•		
•	 [#] Occupation/ Trade/ Site Appointment 	•		
•	Date Joined Company	:		
3.1	DETAILS OF THE INCIDENT			
•	# Date of Incident	:		• Time :
•	# Project of Incident take place	:		
٠	[#] Main Contractor/ Workplace Occupier	:		
•	# Area/ Location of Accident/ Incident	:		
•	Description of Machineries involved (If any)	:		
3.2	Name of Witness -A	:		
	[#] Witness WP/ ID. No.	:		(Designation)
	[#] Witness Tel/Hp No.	:		
3.3	Name of Witness -B			
	# Witness WP/ ID. No.	:		(Designation)
	Witness(es) Address (if any)	:		
•	[#] Witness(es) Tel/Hp No.	:	A)	B)

					<u></u>		
							-
<u></u>							
	-						
					······		
Maat							
DETAILS OF THE INJURY							
Nature & Part of body injured	:						
Medical Leave (MC) granted period	:	Total					
Light Duty (LD) granted period	:	Total	(Days).	From		to	
Name of Clinic or Hospital	:						
Hospital Admission (if any)	 :	Admission Da					
	:	Duration of S	tav	(Davs)	From		to

6.1	FINDINGS AND OBSERVATIONS OF I	INCIDENT	
•	Type of Incident	:	
•	What time did he start work that day		
•	Was he working overtime		
•	# Machine(s) / Agencies Involved (if any)	:	
•	What was the activity during the incident?		
6.2	What was the Immediate Causes?	:	
6.3	What was the Root Causes?	:	
6.4	Any contribution factors?		
7.1	IMMEDIATE CORRECTIVE ACTION :	(Actions taken during or right after the	e incident)
7.2	PREVENTIVE MEASURES: (Recommenda	ntions to be taken to prevent re-occurren	nce of such incident)
•	Implement by WHO? (Name & Appointment)	:	• Targeted Date:
8.			not the Site In-charge should have dedicate his duty to
•	[#] Full Name of Site Supervisor Incharge / Appointed Site Safety Coordinator	:	• Signature : • Date :
9.	REPORT VETTED & APPROVED BY P	ROJECT MANAGER	
•	Commend or Suggestion (if any)		
•	Name of Project Manager	:	• Signature : • Date :
	Note:		· · · · · · · · · · · · · · · · · · ·
	~ NA = Not Applicable;	# = Delete accordingly	
	1	Form-G: Incident/ Safety Analysis Report	Page 10 of

<u>Form-H</u>	(Statement Record)
# Data / Time - 6 Lut	
# Date / Time of Interview	
# Full Name of Witness / Injured Worker	:
# Designation / Occupation	
NRIC / Fin & WP No.	
Company/Address	
Contact No. (if any)	:
Note: NA = Not Applicable;	# = Delete accordingly
Interview Statement	
	nd according to by best knowledge and understanding, and this conscience and is not under any influence by anybody.
Full Name of Interviewee	Signature & Date
Statement taken by: (Full Name)	Full Name of Interpreter/Translator (if a
Signature & Date	Signature & Date

Table Table Market by: Market by: Super description Market bost with boold give with	Company Name: Dronned & Tecuad by .									Page:	
Prepared & Issued by: Name: Designation: Expansion: Signature: Name W W NN NRCNO: Important in the second at 30 minute Important in the second at 30 minute	Dranarad & Iccined hy .						T.	ade:			
Name WP/NRC No. State	richaich & issuen by .	Name:			D	esignation:			Signature		
NPNRCNO: Safety Safe					IWI	es of PPI	ē				
	Name			Work'g Glove							Date
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15			 								

<u>E OF PERSONNAL PROTECTIVE EQUIPMENT</u>

3) TO UTILIZE ALL PPE PROVIDED AT ALL TIME ON SITE DURING WORKING PERIOD.

REPLACEMENT OF THE ABOVE ITEMS WILL BE SOLE RESPONSIBILITIES OF THE INDIVIDUAL PERSONNAL UNLESS PROVENT THAT THE ITEMS IS OF THE GENERAL WEAR & TEAR. THE FINAL DECISION WILL BE OF THE MANAGEMENT. 4

LEGISLATION AND PROMOTIONAL ACTIVITIES ALONE CANNOT PREVENT ACCIDENT FROM HAPPENING. WORKERS SHOULD PLAY THEIR PART BY OBSERVING SAFETY RULES TO ENSURE THEIR SAFETY OF OTHERS 2

RISK ASSESSMENT / SWP BRIEFING / IN-HOUSE TRAINING RECORD

PROJECT/LOCATION:				
COMPANY :			DATE :	
CONDUCTED BY:			DESIGNATION:	
SIGNATURE :			TIME (Started-E	nđ) :
SUBJECTS: During this training sessi work procedure & risk as and/or site supervisor in-t	on the workers listed below are bri sessment on various work process charged. WORK OPERATION	as listed be	elow by the appo	s established safe nited safety personnel
	AME OF WORKER		ID No.	SIGNATURE
1 2				
3				
4				
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19	· · · · · · · · · · · · · · · · · · ·			
20				

FORMS

<u>Form 1</u>

,

GENERAL SAFETY INSPECTION CHECKLIST

INS	PECTED BY :					
	(Name & Signature)	-			(Design	nation)
DA	TE INSPECTED:	-	TIM	E INS	PECTED :	••••••••••••••••••••••••••••••••••••••
S/N	ITEMS CHECKED	YES	NO	N.A	LOCATION	REMARKS
1	Personal Protective Equi	i Du ()	nî -	1		
a	Are all workers issued with the appropriate type of PPE?					
	Any records of issuance kept?					
c	Are safety helmets / belt / harness worn and used by workers while working on site / height?					
2	Electrical Hazards	5		-015-20 -01-0		
a	Is all electrical equipment free of electrical defects?					
b	Are all temporary electrical installation provided with ELCB?					
с	Any bare wires inserted into the socket outlet?					
d	Any electrical wires running on wet surfaces?					
e	Are portable hand tools, equipment, wire and plugs used					
<u> </u>	in good working condition?					
3	Fire Hazards					
	Any fire extinguishers provided in site office and hot work areas?					
	Are oxy – acetylene cylinders fitted with flashback arrestors?					
4	Falling Hazards					
a	Any unguarded / floor openings and effectively barricaded or covered up?					
b	Are proper working platforms provided to workers working at height?					
5	Housekeeping		100 100			
	Any passageways obstructed by debris / materials?					
	Workers disposed their debris daily at the designated areas / bins?					
6	First Aid Box					
a	Is first aid boxed available?					
b	Are they maintained and documented?					
с 7/	Are there first aiders available? Scaffold					
	Weekly check by scaffold supervisor? SWL displayed?					
	Erected by qualified erectors and supervised by scaffold supervisors?					
8	Others	l				
	CONTRACT					
a						

Form-1_General Safety Inspection Checklist

Page 1 of 23

<u>Form 2</u>

CONCRETING – FORMWORK INSPECTION CHECKLIST

Part 1	Design	0K	NOT	CORRECTIVE
1	Formwork structure designed by a competent person / professional engineer			
2	Safety factor for the structure is at least two.			
3	Drawing sufficient in detail for construction of the structure			
4	Adequate diagonal and horizontal braces incorporated into the design for the shoring system			
5	Design checked and verified by construction manager			
6	Copy of design drawing extended to the formwork supervisor			
Part 2	A.) Erection of Formwork	ок	NOT OK	CORRECTIVE ACTION
1	Materials used are adequate in strength.			
2	Formwork constructed in accordance to design.			
3	Forms adequately braced or tied to maintain shape and position (with props, tie backs).			
4	Forms are effectively secured to the shoring system			
Part 2	B.) Erection of Shoring	ЮК	NOT OK	CORRECTIVE ACTION
1	Members of the shoring system are in good condition and in adequate size.			
2	Spacing of members (vertical & horizontal) and bracing (lateral & diagonal) is as designed.			
3	Bracing including diagonal bracing installed in both longitudinal and transverse directions.			
4	Shoring rests on firm and uniform footing (on soleplates if resting on ground)			
5	Platform provided for inspection			
Pari 3	Supervision and Inspection	OK	NOT OK	CORRECTIVE ACTION
1	Erection supervised by designated person		:	
2	Structure endorsed by the professional engineer (if designed by him) before			
3	concreting works commence Structure inspected by designated person during erection and during concreting work			
	and details of such inspections recorded			
Checke	d by: Approved by :			
	2 Signature: Name & Signature:			
Date:	Date:			
Fart 4	Stripping	ОК	N(01) (0)5	CORRECTIVE ACTION
1	Stripping commences only after concrete is set	20072000000000000000000000000000000000	A CARE	COS B LUX BUILDER
	Reshoring provided to support slabs and beams after stripping			
Checke				
	2 Signature: Name & Signature:			
Date:	Date:		•	•

Form 3

INSPECTION CHECKLIST FOR SCAFFOLD SUPERVISOR

a.,	
Site:	

Location of Scaffold :	 Weekly
Type of Scaffold:	1-Monthly
Height of Scaffold:	3-Monthly

Inspection No.	Inspection Date/Time	Scaffold Supervisor/Professional Engineer
		Name / Signature
		Contractor

	Scaffold Components	Components (inadequate, undersized ,etc.)	Conditions of Scaffolds / Component Corroded	Correct Method of Installation	Rectification Remarks
			/ bent dentedetc	(Yes / No)	
1	Ties-back			Y / N	
2	Cross Bracing			Y/N	
3	Horizontal Bracing			Y/N	
4	Joint Pins & Armlock			Y/N	
5	Base Plates / Sole Boards			Y/N	
6	Foundation			Y/N	
7	Working Platforms			Y/N	
8	Toe Boards Planks & Decking used for working platform			Y/N	
9	Guardians (At roof top)			Y/N	
10	Housekeeping on scaffold			Y/N	
11	Debris netting			Y/N	
12	Others				

Note :

- 1 This register shall be entered by a scaffold supervisor and shall be kept at the worksite for inspection by an inspector , pursuant to Factories Act (Chapter 104)-Factories (Scaffolds) Regulations 2004.
- 2 This inspection register should be kept available at the worksite for inspection by a factory inspector.
- If the scaffold is designed by a Professional Engineer(PE) the erection shall be done strictly according to the PE's design . A copy of this design must be kept at the site for checking by an Inspector.
 If amendments are necessary, the PE must be informed and design of scaffold amended by the P.E.
 accordingly

	PRE-EXCAVATIO	DN INSPECTION CH	ECF	KLIS	T	
	TO BE INSPECT, CHECK & FILLED UP B	Y EXCAVATOR OPERATOR	R PRIC	OR EX	CAVAT	ION WORK
Pro	oject Title:					
	me of Contractor:					
1	te of Inspection:		Signa	ature:		
	me of Inspector:				·	
	draulic Excavator Model No. :		LM (i	if any)		
	Cert. Expiry Date:(if any)	(dd-mm-yyyy)				
	* Items Inspected / Che			Result		Remarks
($\sqrt{1} = $ Yes/Satisfactory, X = No/Not Satisfactor		√	X	NA	
1	Adequate warning signboards placed conspicuous					
2	2 Route diversion signboards for public information and convenience (where public access is affected)					
3	3 Blinker lights to trenches / works of existing road					
4	Shoring to excavated trenches more than 1.5m de	ер				
5	Shoring for excavated trench more than 4m deep c design and drawings	constructed according to PE's				
6	Open sides of excavation are guarded by adequate (Minimum 1.1m height)	and effective barricades				
7	Temporary access with railing properly secured o	ver trenches				
8	Ladders, stairways or ramps provided in trench of	more than 1.2m depth				
9	Materials kept away from the edges of the trench (trench)	At least 610mm away from the				
10	Safety cover across road opening / over drain oper	ning				
11	Overhead protection for workers working in the m construction	anholes near buildings under				
12	Tunnel constructed according to PE's design and a					
13	Approved ventilation system provided in tunnel in drawings	accordance to PE's design and				
14	Personal Protective Equipment worn by workers /	site staff				
15	Vehicles / Machinery operated by authorized perso	on				
16	Others					

Form-4

Contractor's Excavator Operator

~I declare that the works have been inspected and accepted to the best of my knowledge. Date:

Name & Signature of Contractor's Excavator Operator

Time:

<u>Form 5</u>

MONTHLY INSPECTION CHECKLIST FOR FIRE EXTINGUISHER

SITE:		
LOCATION OF CHECK:	MONTH OF:	· · · · · · · · · · · · · · · · · · ·
NAME OF CHECKER:	2 1 2 2	·
SIGNATURE:	TIME:	······································
CHECKING ITEMS	YES NO	REMARKS
1 Is the equipment updated		
2 Is the equipment placed at a suitable location		
3 Is the equipment gauge in working condition		
4 Are safety pin / catch attached.		
5		
		\
SITE:		
LOCATION OF CHECK:	MONTH OF:	
NAME OF CHECKER:	DATE.	
SIGNATURE:	TIME:	
CHECKING ITEMS	YES NO	REMARKS
1 Is the equipment updated		
2 Is the equipment placed at a suitable location		
3 Is the equipment gauge in working condition		
4 Are safety pin / catch attached.		
5		
SITE:		
LOCATION OF CHECK:	MONTH OF:	
NAME OF CHECKER:	 DATE:	
SIGNATURE:	TIME:	
CHECKING ITEMS	YES NO	REMARKS
1 Is the equipment updated		
2 Is the equipment placed at a suitable location		

Is the equipment gauge in working condition

Are safety pin / catch attached.

DAGON INTERNATION LIMITED

3

4

5

<u>Form 6</u>

MONTHLY INSPECTION CHECKLIST FOR FIRST AID BOX

PROJECT:		_
LOCATION OF CHECK:	MONTH OF:	
NAME OF CHECKER:	DATE:	
SIGNATURE:	TIME:	

	CHECKING ITEMS	YES	NO	NA	REMARKS
1	Is the first-aid box updated				
2	Is the first-aid box placed at a suitable location				
3	Is the first-aid box suitable/right/sufficient size				
3	Individually wrapped sterile adhesive dressing				
4	Crepe bandage 5cm				
5	Crepe bandage 10cm				•
6	Absorbent gauze (packet of 10 pieces)				
7	Hypoallergenic Tape				
8	Triangular bandages				
9	Scissors				
10	Safety Pins				
11	Disposable gloves (pairs)				
12	Eye Shield				
13	Eye Pad				
14	Resuscitation Mask (One-way)				
15					

Note:

Tick in Yes indicate Tick in No indicate Tick in NA indicate

- : No replenish is required
- : Contents required replenish

: Not Applicable

		TOTATO TOTATO TOTATO TOTATON TOTATON TOTATON TO A DATE TO A DATE
	Project Site:	Equipment No:
·=•	ITEM CHECKED GAS CYLINDER	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 20 30 31
1.	1.1 Secured in upright position.	
Ľ.	1.2 Protected from oil ,sparks ,heat and fire.	
-	1.3 Kept away from live electrical cables.	
1.	1.4 Leak free (To be tested with soap solution	
Ι.	1.5 Oxygen & Acetylene are kept apart.	
2.1	1.6 Stored apart and marked "Empty" & "Full". 2 RECULATIORS	
5.	2.1 Are in good working conditions	
2.	2.2 Are leak free (To be tested with soap solution)	
(in)	HOSES AND CONNECTIONS	
ς.	3.1 Is Leak free(To be tested with soap solution).	
Э.	3.2 Are securely joined and fasten with clips.	
Ð	CULTING TORCH	
4	4.1 Are in good working condition.	
4.	4.2 Are leak free(To be tested with soap solution).	
4	Are securel	
60	SAFETY DEVICES	
5.	5.1 Flash back arrestors at regular and torch	
5.	Fire extinguisher	
9	OTHERS	
6.	6.1 Cylinder Key are available	
6.2	2	
Che	Check By:	
Name:	le:	
Sigı	Signature:	
		Form-7_Gas Cutting Equipment Checklist

8	
ш	
110	
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WELDING EQUIPMENT INSPECTION CHECKLIST

9 30 31

	Project Site:								1	Ä	Equipment No:	men	lt No						
	ITEM CHECKED 1 2 3 4 5 6 7 8 WHEN EXCLOSED 1 2 3 4 5 6 7 8	9 10	11	12 13	14	15	16	17 1	8 1	9 20	18 19 20 21 22 23	22	23	24	25	26	27	28	50
-			-	-			ŀ	ŀ											
	1.1 Secured in upright position.			_															
1.	1.2 Protected from oil ,sparks ,heat and fire.																		
-	1.3 Kept away from live electrical cables.																		
1.4	1.4 Cabin condition																		
4	CABLES																		
2.	2.1 Are in good working conditions																		
2.1	2.2 Are Securely joint and fasten																		
		······																	
ε	SAPETY DEVICES																		
3.	3.1 Safety signboard available																		
3.	3.2 Fire extinguisher near equipment.																		
4	OTHERS																		
																		-	1
Chee	Check By:																		
Name:																	•••		

Signature:

<u>Forn</u>	1- 11

PRE-LIFTING OPERATION INSPECTION CHECKLIST

	TO BE INSPECT, CHECK & FILLED UP BY LIFTING SUPERVISOR PRIO	OR LII	TING	OPER	ATION
Proj	ect Title :				· · · · · · · · · · · · · · · · · · ·
Con	tractor :				
Date	of Inspection:	~			-
Nam	e of Lifting Supervisor:	 Signa 	ature:		
Lifti	ng Machine LM No. :	DD	No.:		
LM	Cert. Expiry Date:	-	т-уууу	/)	
S/N	DESCRIPTION	YES	NO	NA	REMARKS
1	LOAD				
~	Has the actual weight of the load inclusive of the accessories been established?				 Solid a set of some stability advancements along to
~	Is the established load within the safe working load of the lifting equipment?				
~	Is the load rigged to the centre of gravity?				
~	Is a tag line provide to control movement of the load?				
~	Is the load being lifted in a level and stable manner?				
2	LIFTING EQUIPMENT				
~	Is the selected lifting equipment fit for purpose and appropriate for the lifting				an a
	operation?				
~	Has the lifting equipment been examined at least once in the last 12 months (or 6				
	months for those lifting personnel) by authorised examiner and does it possess a valid lifting equipment certificate?				
	Has the lifting equipment been marked conspicuously with the maximum working load				
	which it can safely carry?				
3	LIFTING OPERATION				
~	Is there a lifting team available for the operation?	11, saya dan 143	ndre Galidië		
~	Has risk assessment been conducted to ensure that all possible hazard are eliminated			-	
	and risk are reduced?				
~	Has the identified control measure(s) been implemented?				
~	Is the area for lifting the load and the lifting path been cleared of obstruction and personnel?				
~	Has the designated area for placing the load been cleared or properly prepared prior to the lifting operation?				
~	Is the load likely to clash with other structures or equipment along its lifting path?				
~	Has a safe means of access or egress been provided for personnel to attach or recover the rigging of the load?				
~	Has the means of communication during the lift been established and confirmed?				
~	Has the lifting zone been barricaded to prevent access by unauthorised personnel?				
4	PERSONNEL INVOLVED IN LIFTING OPERATION, SUCH AS EQUIPMENT OPERATOR, SIGNALMAN, RIGGER AND LIFTING SUPERVISOR				
~	Has trained and competent lifting personnel been identified for the lifting operation?				
~	Have all lifting personnel such as operator, lifting supervisor, signalman and rigger been brief at a tool box for risk assessment & SWP prior lifting the load?				
	Contractor's Lift/Hoist Operator				
	~I fully understand the nature of the work and safety conditions that must be the requirements and conditions relating to the work to be performed to the				
		D۶	ite:		
	(Name & Signature of Contractor's Lift/Hoist Operator)		ne:		

<u>Form-12</u>
PRE-OPERATION PILING MACHINE INSPECTION CHECKLIST

	TO BE INSPECT, CHECK & FILI	LED UP BY I	PILING MACHIN	NE OPERATO	DR
Pr	oject Title:				
Na	me of Contractor:				
Da	te of Inspection:		<u> </u>		
Na	me of Inspector:	Signature:			
Pil	ing Machine LM / ID No. : LM				
LN	I Cert. Expiry Date:	·····			
	* Items Inspected / Checked	Results			
	(Tick for OK, Cross for defective)	ОК	Defective	NA	Remarks
1	Engine Condition				
2	Engine Oil Leaks				
3	Hydraulic Oil leaks				
4	Battery Checks				
5	Guide Wire in good Condition				
6	Wire rope are in good condition				
7	Conditions of Retaining pins & Position				
8	Lifting Gear Tested & Identification Tag in place				
9	Leader Condition				
10	Pulleys in good condition & Properly Greased				
11	Mirrors				
12	Wipers				
13	Wind Screen Condition				
14	Operation lever Condition				
15	Condition of Fire Extinguisher				
16	Cabin Free from Obstruction	-			
17	Hydraulic Hoses in Good condition				
18	Electric Cables & Holders properly insulated				
19	Brake pedal in Good Condition				
20	Wire Rope properly Feed on Sheave	-			
21	Bolts & Nuts Tightened properly				
22	Ladder in Good Condition				
23					

Contractor's Boring Operator

~I fully understand the nature of the work and safety conditions that must be met. I have inspected the requirements and conditions relating to the work to be performed to the best of my knowledge.

Name & Signature of Contractor's Boring Operator

Date: _____

Time:

<u>Form 14</u> INSPECTION CHECKLIST FOR LIFTING GEAR / APPLIANCES

PRO.	JECT:			
NAM	E OF CHECKER:	SIGNA	TURE:	-
DESI	GNATION			
I E P				
LE R	egistration No:	Expiry	Date:	· ····
Max	SWL:			
	& Description			
of Li	fting Equipment:			
	ATION DATE: pear-product of the second se			
A	WIRE ROPE SLING			
1				
2				
3				
5		•		_
6 7				
8				
B				
1				
2	Fatigue			
3	Twisted			
4	Shackle Corroded			
5	Abraded / Cut			
6	With valid LG Certificates			
С	EYE-HOOK			
1	Visual Crack observed			
2	Fatigue			
3	Twisted			
4				
5				
6				
D				
1				
2				
3				
4	Master link or chain link Corroded			
5	With valid LG Certificates			
E				
1	Knots			
2	Chafe			
3	Cut			
4	Stitches seams damaged			
5	With valid LG Certificates			
F	OTHERS (Please specify)			
1				

Fe	orm-19		<u>Lifti</u>	ng Gear	<u>- Reg</u>	ister Forms		<u>lp r</u>	kev-01
								Page of	
ӶӯӀ	pe of Lift	ing Gear							
			(indica	ate here e.g. `	Wire-Rope	Sling / Webbing Sling /	Chain-B	locks etc.)	
LG Description (details from LG Cert.)									
iTEM	Dia./Size	Length	Dee Shackles Size	Eye Hook / Clamp Size	Others	LG (Lifting Gear) / LE (Lifting	Max. SWL	Expiry Date	Remarks
	(Ø / mm)	(Mtr)	(Ton)	(Ton)	Size (Ton)	Equipment) No.:	(Ton)		
1									
ote	: Different 1	Types of Lif	ting Gear sh	ould use oth	ers forms f	for records.			
	Recorded B	y:							
		Name :				Signature:			
pointed Lifting Supervisor:									
								_	
	Checked By	/ Site In-Ch	arged :						
		Name :				Signature:			
						Date :			