# STANDARD INDUSTRI PEMBINAAN (CONSTRUCTION INDUSTRY STANDARD)

# CIS 10:2018

# SAFETY AND HEALTH ASSESSMENT SYSTEM IN CONSTRUCTION (SHASSIC)

Description: Safety and health assessment, document check, workplace inspection, employee interview, rankingstar

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CONSTRUCTION INDUSTRY DEVELOPMENT BOARD



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# SAFETY AND HEALTH ASSESSMENT SYSTEM IN CONSTRUCTION



CIS 10: 2018 Safety and Health Assessment System in Construction

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# **COMMITTEE REPRESENTATION**

This Construction Industry Standard (CIS) was developed and reviewed by the Construction Industry Development Board Malaysia with the assistance of the Technical Committee on Occupational Safety and Health in Construction, which comprises representatives from the following organisations:

Department of Occupational Safety and Health Malaysia Malaysian Resources Corporation Berhad Mass Rapid Transit Corporation Sdn. Bhd. Master Builders Association Malaysia MMC Gamuda KVMRT (PDP SSP) Public Works Department Malaysia Sunway Construction Sdn. Bhd. Sysnovate Solution Sdn. Bhd. Universiti Teknologi MARA

#### PREFACE

Safety and Health Assessment System in Construction Industry, or better known as SHASSIC, was developed in 2008 as Construction Industry Standard (CIS 10:2008). This standard was revised 10 years later and known as CIS 10:2018. The revision was carried out by a Technical Committee formed by CIDB, whose members were represented by the industry stakeholders.

References were made to several documents generally used by industry players in managing construction safety and health, as listed in Section 1 of the CIS 10:2018. This revised version of SHASSIC document is expected will provide clearer guidance to assessors and contractors in assessing their safety and health performance at construction sites.

It should be noted that compliance with this Construction Industry Standard does not in itself confer immunity from legal obligations.

# SAFETY AND HEALTH ASSESSMENT SYSTEM IN CONSTRUCTION (SHASSIC)

#### SECTION 1: GENERAL

#### 1.1 Introduction

Safety and Health Assessment System in Construction, or SHASSIC, is an independent method to assess and evaluate the safety and health performance of a contractor in construction works/ projects. The assessment shall cover 25% to 75% of a project's physical progress and shall be inclusive of construction planning stage and construction stage.

#### 1.2 Objectives of SHASSIC

SHASSIC was designed and developed to enable the user to achieve any, or a combination, of the following objectives:

- i) To establish a standard system on occupational safety and health assessment in the construction industry
- ii) To assess and evaluate the contractor's occupational safety and health performance based on a particular project
- iii) To evaluate the performance of contractor(s) on occupational safety and health practices at site
- iv) As a feedback mechanism to improve and to take necessary corrective and preventive measure on occupational safety and health performance and management at the site
- v) To benchmark the level of occupational safety and health performance of the Malaysian construction industry.

#### 1.3 Scope of SHASSIC

This standard sets out the safety and health management and practices of the contractor for various aspects of the construction work activities. The new proposed standard covers all two stages of construction project cycle - construction planning stage and construction.

Each phase is assessed through three (3) main components of assessment such as document check, workplace inspection and construction personnel interviews. The components encompass:

- i) OSH policy
- ii) Leadership and worker participation
- iii) Planning, support, operation
- iv) OSH organisation
- v) Hazard Identification, risk assessment and control measures determination
- vi) OSH training and promotion
- vii) Machinery and equipment management
- viii) Materials management
- ix) Emergency preparedness
- x) Incident and accident investigation and reporting
- xi) Records management and performance monitoring, etc.

Application shall cover OSH management system and practices during construction planning stage and construction work activities, particularly work activities covered under CIDB Act 520.

#### 1.4 Use of SHASSIC

SHASSIC is intended to assess the OSH performance of a project. Preferably, the assessment shall be carried out when there are different types of activity that are ongoing at the same time (concurrent activities) and many workers of different levels (main contractor, main subcontractor and subcontractor) are involved at the site.

It is not intended to be used independently to decide if the project site or parts of the project site is in accordance with the requirement of the relevant Acts and Regulations or OSH Management System. It is the responsibility of all parties involved directly in a project site to ensure that safety and health of the construction site conform to the legislation's requirement, approved standards, code of practice, guidelines, specifications and contractual requirements.

#### 1.5 Normative References

The following normative reference is indispensable for the application of this construction industry standard. For dated reference, only the edition cited applies. For undated references, the latest editions of the normative references (including any amendments) apply.

- CIS10:2008 (Safety and Health Assessment System in Construction, SHASSIC)
- Department of Occupational Safety and Health (DOSH) Guidelines for Public

Safety and Health at Construction Site 1994

- Factories and Machinery Act (FMA), 1967 (Act 139)
- Factories and Machinery (FM) (Building Operations and Works of Engineering

Construction [BOWEC]) (Safety) Regulations, 1986

· Factories and Machinery (Notification, Certificate of Fitness and Inspection

NCFAI) Regulations, 1970, Occupational Health and Safety Assessment Series,

OHSAS 18001: 2007, MS 1722 and ISO 45001:2018

- Factories and Machinery (Safety, Health and Welfare [SHW]) Regulations, 1970
- Lembaga Pembangunan Industri Pembinaan Malaysia Act 1994 (Act 520)
- Occupational Safety and Health Act (OSHA) 1994 (Act 514)
- Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals [CLASS]) Regulations 2013
- Occupational Safety and Health (Notification of Accident, Dangerous Occurrence, Occupational Poisoning and Occupational Disease [NADOPOD]) Regulations 2004
- Occupational Safety and Health (Safety and Health Committee [SHC]) Regulations 1996
- Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health [USECHH]) Regulations 2000
- Uniform Building by Law (UBBL) 1984

#### 1.6 Terms and Definitions

For the purpose of this standard, the following definitions apply.

#### i. Appointed personnel

Personnel who is officially appointed by the employer to undertake certain responsibility, as written in the appointment letter or equivalent document.

#### ii. Approved professional engineer (PE) design

An approved PE design is design approved by all levels, which includes the client/owner, consultant, and contractors.

#### iii. Construction stage

Construction stage is the start of physical construction work at the site, which takes place after site mobilisation.

#### iv. Designated person

"Designated person" as defined in Factories and Machinery (Building Operations and Works of Engineering Construction (BOWEC)) (Safety) Regulations 1986 refers to a competent person appointed by an employer to carry out any supervision, or inspection, or to perform any task or duty prescribed by BOWEC Regulations 1986.

#### v. Document/s

For the purpose of SHASSIC, document/s refer to:

- Communication of information
- Evidence of conformity
- Knowledge sharing
- To disseminate and preserve the organisation's experiences

The medium can be paper, magnetic, electronic, photograph or master sample, or a combination.

#### vi. Emergency response and preparedness (ERP) facilities

ERP Facilities or provision which includes any emergency preparedness, which include First Aid provision, firefighting provision, and incident and/or accident reporting provision.

#### vii. Hazard

A source, situation or act with a potential for harm in terms of human injury or ill health, or a combination of these.

#### viii. Hazardous Activities

Hazardous activities are considered the situations or activities with high potential risks of causing injury, death or serious damage to properties such as working at height, lifting exercises, works associated with temporary works, working at confine area and etc.

#### ix. Hazard identification

The identification of undesired events that lead to the materialisation of the hazard and the mechanism by which those undesired events may occur.

# x. Hazard identification, risk assessment, and risk control (HIRARC) or Hazard identification, risk assessment and determining controls (HIRADC)

A risk management process associated with identifying hazard/s which may cause harm, assessing the risk, putting in place control measures and reviewing the outcomes through risk monitoring.

#### xi. Health

The state of being free from illness or injury.

#### xii. High-risk area

A location determined by the SHASSIC assessor as potential and/or high risk towards the safety and health of workers.

#### xiii. Illumination/lighting

Provisions are made to secure and maintain sufficient and suitable lighting, whether natural or artificial, at the work vicinity, in accordance to FMA Act 1967, Section 22/ FM [SHW] Regulations 1970, Regulation 29)

#### xiv. Managerial personnel

For the purpose of SHASSIC, managerial personnel are those in the managerial position of the construction process at the construction site such as Project Manager, Construction Manager, Site Agent and Project Engineer.

#### xv. Occupational Health and Safety (OH&S) or Occupational Safety and Health (OSH)

For the purpose of SHASSIC, the terms "occupational health and safety" (OH&S) and "occupational safety and health" (OSH) have the same meaning.

#### xvi. OSH policy

Overall intentions and direction of an organisation related to its OSH performance as formally expressed by top management.

#### xvii. Permit to work (PTW)

A documented permission derived by the company to meet its specific OSH needs. It aims to ensure proper OSH planning and consideration is given to a particular work.

#### xviii. Personal Protective Equipment (PPE)

Personal Protective Equipment or Personal Protective Clothing and Appliances (as defined in FMA 1967) provision and maintenance are mandatory to be provided for workers who are exposed to injurious substances which are liable to cause bodily injury. PPE shall include the following (but not limited to) (FMA 1967, Section 24):

- a. Safety hard hat/safety helmet
- b. Safety footwear
- c. Hand protection/handgloves
- d. Eye protection such as safety glasses or goggles
- e. Fall arresters
- f. Self-contained breathing apparatus (SCBA)
- g. Face shield
- h. Hearing protection (e.g. earplugs, ear muffs)
- i. Protective clothing (especially for chemical hazards)
- j. Respirator
- k. Dust mask
- I. Safety vest

#### xix. Record

Document stating results achieved or providing evidence of activities performed.

#### xx. Risk

A combination of the likelihood of an occurrence of a hazardous event with specified period or in specified circumstances and the severity of injury or damage to the health of people, property, environment or any combination of these caused by the event.

#### xxi. Safe system of work

A safe system of work is a formal procedure which results from the systematic examination of a task in order to identify all hazards. It defines safe methods to ensure that hazards are eliminated or risks minimised.

#### xxii. Safe Work Procedure (SWP) or Safe Operating Procedure (SOP)

SWP or SOP is a risk management tool/a working risk control document developed to describe the safest and most efficient way to perform certain works. The document is used as a guide when completing the work at site.

#### xxiii. Safety

The condition of being protected from or unlikely to cause danger, risks or injury.

#### xxiv. Safety and Health Committee (SHC)

Safety and Health Committee established under Section 30 OSHA 1994, which consists of a chairman, a secretary, representatives of the employer and representatives of employees. The chairman shall be an employer or his authorised manager and the secretary shall be the person who is employed as the safety and health officer at the place of work.

#### xxv. SHASSIC

SHASSIC is the acronym for safety and health assessment system in construction.

#### xxvi. Site safety supervisors (SSS)

A person who is competent to perform the duties specified in Regulations 25 of Factories and Machinery (Building Operations and Works of Engineering Construction (BOWEC)) (Safety) Regulations, 1986.

#### xxvii. Supervisory

For the purpose of SHASSIC, supervisory personnel includes representatives from main contractors, subcontractors and designated person (DP)

#### xxviii. Welfare

A statutory procedure designed to promote the basic physical and material well-being of workers in need.

#### xxix. Working at height

For the purpose of SHASSIC, working at height means work in any place where, if there were no precautions in place, a person could fall from the distance of 2 metres.

#### xxx. Working personnel/ workers

For the purpose of SHASSIC, workers or working personnel are the people carrying out work at site. It can be divided into skilled and non-skilled workers. Skilled workers mean a person possessing the accepted level of skill as determined by CIDB. From the total number of nine (9) workers, the recommended skilled and unskilled workers are three (3) from each of high-risk work activities.

#### xxxi. Workplace/working space

Any physical location in which work-related activities are performed under the construction contract.

#### xxxii. Work amenities

Facilities provided for the welfare or personal hygiene needs of employees. They include toilets, restrooms, shelter sheds, seating, dining rooms, change rooms, drinking water, lockers, first-aid box, first-aid room and washing facilities.

#### xxxiii. Construction works

As defined in the latest Construction Industry Development Board Act 520.

#### xxxiv. Ventilation

Natural or mechanical, adequate ventilation must be provided by circulation of fresh air and rendering harmless gasses, fumes, dust or other impurities that may affect health in the course of work conducted (FMA 1967, Section 22).

#### 1.7 Elements

The assessment element was derived from Malaysia's legal requirement such as CIDB Act 520, OSHA 1994 and its regulations, FMA 1967 and its regulations, code of practices, standard, OSH management standards such as ISO 45001:2018 and MS1722:2011, guidelines and other requirements.

#### 1.8 Assessor

An assessor shall be the person/persons who are appointed and possesses qualifications as described below:

- i) Attended a one-day SHASSIC course and passed the examination and have a minimum of 5 years' experience in the construction industry, or
- ii) Attended a one-day SHASSIC course and certified as OSH Lead Auditor with a minimum of 3 years' experience in the construction industry (construction project site)

#### SECTION 2: ASSESSMENT

#### 2.1 Assessment Approach

The assessment shall be carried out in three (3) different approaches:

#### i) Document check

Checking of OSH-related documents and records will enable the assessor to determine the compliances of the establishment of safety and health programmes and activities.

#### ii) Workplace inspection

Workplace inspection shall be conducted in order to assess the OSH implementation at the site. There are two checklists developed to assess the workplace; the first checklist is to assess the general OSH management implementation and facilities at site while the second checklist is to exclusively assess three (3) high-risk construction work activities currently ongoing on-site at the time of assessment. These construction projects preferably have high-risks works such as working at height, mechanical lifting operation activities, concreting works and others.

The location and high-risk activities will be determined by the SHASSIC assessor. The assessor may also discuss with the principal contractor prior to selection of these high-risk activities currently ongoing during the assessment.

Both workplace inspection checklist/assessment shall provide the assessor with the valuable visual comparison evidence on the OSH programmes implemented, enforced and practiced at site/workplace.

#### iii) Questionnaire

Employees shall be randomly selected from all levels of occupation so that they could be interviewed by the assessor using established standard questionnaire. The employees are grouped into three (3) categories as follows:

- Category A One (1) employee from managerial personnel project manager, construction manager, site agent and project engineer
- Category B Three (3) employees from supervisory personnel site supervisor, designated person (DP), OSH committee members and/or a combination of both, safety and health officer and site safety supervisor.
- Category C Nine (9) employees from working personnel preferably three people from each high-risk construction work activities.

#### 2.2 Weightage

The weightage for safety and health performance are allocated in accordance to three (3) components, as shown in Table 1.

No.	Components	Subtotal Weightage (100%)					Total Weightage (100%)	
1	Document Check		A.1			<b>A</b> .		20
		Constructio sta		anning		Construction stage		20
		20		80		)		
2	Workplace Inspection	B.1		B.2a	В.2	2b	B.2c	
		General	N	/ork 1	Wor	k 2	Work 3	60
		10		30	30	)	30	
3	Questionnaire	C.1		C.	2		C.3	
		Category /	/ A Catego		Category B		ategory C	20
		50	30		0		20	
	Total Score <sup>100</sup>							100

#### Table 1. Allocation of weightage for components

The weightage system is aimed at making the quantified score in representing the occupational safety and health performance of a project site.

# 2.3 Formula/Score

The formulas for respective component are as follows:

CONSTRUCTION PHASE			FORMULA	
Construction Planning Stage	A.1	=	<u>_Total_Number_C_Scored</u> _X 20% (16 - Number of NA)	
Construction stage	A.2	=	<u>_Total_Number_C_Scored</u> _X 80% (41 - Number of NA)	
SHASSIC Score for Document Check:				
A = (A.1 + A.2) X 20%				

# Table 2. SHASSIC formula/score for document check

WORKPLACE INSPECTION	FORMULA			
General OSH Management	B.1 = <u>Total Number C Scored</u> X 10% (9- Number of NA)			
Concrete Work / Work 1	B.2a = <u>Total Number C Scored</u> X 30% (21 - Number of NA)			
Lifting Operation / Work 2	B.2b = <u>Total Number C Scored</u> X 30% (21 - Number of NA)			
Working at Height / Work 3	B.2c = <u>Total Number C Scored</u> X 30% (21 - Number of NA)			
SHASSIC Score for Workplace Inspection:				
B = (B.1 + B.2a + B.2b + B.2c)X60%				

Table 4. SHASSIC score for questionnaire

CATEGORY	FORMULA				
Category A - Project Manager/ Project Director (1 person)	C.1 <u>= Total Number C Scored</u> X 50% (9 - Number of NA)				
Category B - Site Supervisor Designated Person SHC Members (3 persons)	C.2 = <u>Total Number C Scored</u> X 30% (24 - Number of NA)				
Category C - Different Trades (9 persons)	C.3 = <u>Total Number C Scored</u> X 20% (153 - Number of NA)				
SHASSIC Score for Questionnaire: C = ( C.1 + C.2 + C.3 ) X 20%					

where,

C - total number of Compliance	
--------------------------------	--

- NC total number of Non-compliance
- NA total number of items that are Not Applicable

The total SHASSIC score in Document Check (A) plus (+) total SHASSIC score in Workplace Inspection (B) plus (+) total score in Questionnaire (C) components shall justify the star ranking. The stars awarded ranges from 1 to 5 stars, as per Table 5. However, should the contractor fail to meet the minimum conformance level, the project may be given a certificate of participation.

# 2.4 SHASSIC Star Ranking

Total SHASSIC (score %)	Star(s) Awarded	Justification
90 to 100	****	Excellent OSH management system planned and implemented with proactive commitment from top management to manage OSH at all times
80 to 89.9	* * * *	Very good OSH management system planned and implemented with evidence of good commitment from top management to manage OSH at all time
70 to 79.9	* * *	Good OSH management system planned and need commitment from top management but need improvement in system implementation
60 to 69.9	* *	Satisfactory OSH management with minimum plan and implementation, and need commitment from top management
50 to 59.9	*	Basic OSH management system with basic plan and implementation and required commitment from top management
49 and below	Certificate of Participation ONLY	Fail to meet the minimum requirement and poor in OSH performance and management.

# Table 5. SHASSIC Star Rating

# ANNEX A.1

# DOCUMENT CHECK (CONSTRUCTION PLANNING STAGE)

ITEM	CHECKLIST	С	NC	NA	REMARKS
A	<b>OSH POLICY</b> (NOTE: OSH Policy is only applicable to organisations	with mo	ore than	n five (5	) employees)
1	Whether there is a written OSH Policy Statement?				
2	Has the SHC conducted a review to ensure suitability of OSH Policy Statement?				
3	Whether project OSH Policy Statement was written in Bahasa Malaysia?				
4	Whether OSH Policy Statement was written in English?				
5	Check whether Project OSH Policy is signed by the top management.				
6	Check whether the OSH Policy is dated or otherwise.				
7	Written policy statement specific to the nature of work as per the work scope.				
В	HIRARC				
1	Are there documented HIRARC?				
2	Whether HIRARC has been reviewed?				
С	DETERMINATION OF LEGAL REQUIREMENTS AND	OTHE	R REQ	UIREM	ENTS
1	Are there documented legal requirements and other requirements Action Plan?				
2	Project management personnel are accessible to up- to-date legal requirements and other requirements?				
3	Is there a valid CIDB Registration Certificate?				
4	Do all project construction personnel possess valid CIDB Green Card?				
5	Project site registered with JKKP/DOSH?				
D	OCCUPATIONAL SAFETY & HEALTH OBJECTIVES				
1	Are OSH objectives evaluated from time to time?				
2	OSH objectives are integrated in other work activities or procurement process?				

ANNEX A.2
DOCUMENT CHECK (CONSTRUCTION STAGE)

ITEM	CHECKLIST	С	NC	NA	REMARKS
Α	OSH ROLES AND RESPONSIBILITIES				
1	Whether the roles and responsibilities of all project's personnel documented?				
2	Whether the roles and responsibilities of all project's personnel communicated to them?				
3	Whether the project SHC is established in accordance with OSH (SHC) 1996 Regulations?				
4	There is Site Safety Supervisor appointed for Building Operation and Works Engineering Construction (BOWEC) work activities.				
5	Designated Persons (DP) are assigned for respective BOWEC work activities.				
6	There is a SHO employed for the project, which is valued at more than RM20 million.				
в	COMPETENCE TRAINING AND AWARENESS				
1	There is appropriate documented information on employee's competency.				
2	There is OSH Induction Training conducted.				
3	Necessary competency and training required for employees have been identified.				
4	There is Competence, Training and Awareness Action Plan.				
5	Requirement on Competency, Training and Awareness is made known to employees.				
с	COMMUNICATION, PARTICIPATION AND CONSUL	TATIO	ON		
1	There is proof of communication related to OSH Management System.				
2	There is proof of workers' participation and consultation.				
3	Project Safety and Health Committee is established and meeting conducted on monthly basis.				
4	Project Safety and Health Committee is involved for improvement of the OSH Management System.				

## ANNEX A.2

# DOCUMENT CHECK (CONSTRUCTION STAGE) (continued)

ITEM	CHECKLIST	С	NC	NA	REMARKS
D	DOCUMENTED INFORMATION				
1	There is a written directive for creating and updating documented information.				
2	There is a register/log for all available OSH Management System.				
3	There is Action Plan for storage, protection, retrieval, retention and disposal of records.				
Е	OPERATIONAL PLANNING AND CONTROL				
1	There are document on hazard elimination and risk reduction using Hierarchy of Control.				
2	There are Safe Work Procedures (SWP) for three (3) high-risk work activities.				
3	There is action plan on controlling temporary or permanent changes of work processes.				
F	EMERGENCY PREPAREDNESS AND RESPONSE				
1	There is document/s in potential emergency situation identification and initial evaluation.				
2	There is a project Emergency Response Plan developed.				
3	There is a project Emergency Response Team established.				
G	PERFORMANCE MEASUREMENT AND MONITORIN	١G			
	There is an Action plan developed to monitor, measure, analyse and evaluate OSH performance.				
2	Reports on monitoring, measuring, analysing and evaluating OSH performance are reviewed by project top management.				
3	There is an Action Plan developed to evaluate legal requirements and other requirements compliances.				
н	INCIDENT, NONCONFORMITY AND CORRECTIVE		N		
1	There is an Action Plan for reporting, investigating and taking action related to incident and Nonconformity determination and managing.				
2	Incident record/logbook/register is established.				

# ANNEX A.2

# DOCUMENT CHECK (CONSTRUCTION STAGE) (continued)

ITEM	CHECKLIST	С	NC	NA	REMARKS
I	INTERNAL AUDIT PROGRAMME	-			
1	There is an Action Plan for Internal Audit programme established, implemented and maintained.				
2	DOSH Site Visit or Inspection Log Book is maintained.				
3	Audit Report is reported to relevant managers for their further action.				
4	There is action taken to address Nonconformity and continual improvement of OSH performance.				
J	CONSTRUCTION WORK ACTIVITIES				
1	Records on Temporary & falsework are checked and approved prior to use.				
2	Site preparation - Safe Work Procedures				
3	Fitness Certificate (PMA)				
4	Fitness Certificate (PMT)				
5	Machinery maintenance record				
6	Local authorities' approval to clear bush, remove top soil or felling of trees				
7	Hoarding erection				
8	Fogging				
	TOTAL SCORE				

#### ANNEX B.1

# WORKPLACE INSPECTION

ITEM	CHECKLIST	С	NC	NA	REMARKS
Α	SITE OSH MANAGEMENT				
1	There is displayed Project Safety OSH Policy and communicated to all employees.				
2	Project site JKKP registration number displayed at site.				
3	Are there any OSH Site Rules displayed on project site?				
В	MOVEMENT OF VEHICULAR TRAFFIC				
1	Whether traffic movement plan developed?				
С	SIGNAGE AND COLOUR CODE				
1	Mandatory Signage in BLUE				
2	Prohibition Signage in RED				
3	Warning Signage in YELLOW				
4	Safe Signage in GREEN				
5	Assembly point with signage				
	TOTAL SCORE				

# ANNEX B.2 (a,b & c) WORKPLACE INSPECTION (CONSTRUCTION WORK ACTIVITIES)

ITEM	CHECKLIST		B.2a			B.2b			B.2c		REMARKS
	CHECKEIST	С	NC	NA	С	NC	NA	С	NC	NA	
Α	DESIGNATED PERSON APPOINTED										
1	Competent and Trained Person										
В	EQUIPMENT/MACHINERY										
1	Approved PE Designed										
2	Machinery Fitness Certificate (PMA/PMT)										
3	Competent/Trained Operator										
4	Machinery Guarding/Fencing										
5	Trained rigger assigned?										
С	MATERIAL										
1	Material Handling Arrangement										
2	Material Storage Arrangement										
3	Material Safety Data Sheet										
4	Waste Material Disposal Plan										
D	WORKING ENVIRONMENT								_		
1	Safety/Notices Signage displayed										
2	Permit to Work issued for high risk activities?										
3	Safe Access and Egress										
4	Ventilation										
5	Fall protection against falling from height (2 meter and more) available during construction activities.										

# ANNEX B.2 (a,b & c) WORKPLACE INSPECTION (CONSTRUCTION WORK ACTIVITIES)

			B.2a			B.2b			B.2c		DEMARKO
ITEM	CHECKLIST	С	NC	NA	С	NC	NA	С	NC	NA	REMARKS
6	Illumination										
7	Movement of Vehicular Traffic										
8	Temporary & falsework are installed, fixed and constructed as per the intended use / as per PE's design.										
9	Workers are using correct PPE										
10	Standing supervision by site safety supervisor / Designated Person for hazardous activities e.g. working at height, mechanical lifting or etc.										
11	Openings at inside building are properly guarded and secured from falling of objects / worker.										
	TOTAL SCORE										

ANNEX C.1 QUESTIONAIRE (CATEGORY A - MANAGERIAL)

ITEM	QUESTIONNAIRE	MA	NAGEM	ENT	REMARKS
	QUESTIONNAIRE	С	NC	NA	
1	Are prevention of work related injury and/or health and the provision of safety and health workplaces and activities are committed/demonstrated by top management?				
2	Are workers consultation and participation in OSH programme and activities assured by top management?				
3	Who are the chairman and secretary for SHC meeting?				
4	There is an organisational culture that supports the expected results of the OSH MS?				
5	What do you know about HIRARC?				
6	Have you ever been involved in HIRARC exercise?				
7	What is NADAPOD Regulations?				
8	How is the project OSH performance being evaluated?				
9	Are you personally involved in OSH management review and continual improvement for this project?				
	TOTAL SCORE				

ANNEX C.2
QUESTIONAIRE (CATEGORY B - SUPERVISORY)

ITEM		EMF	PLOYE	E 1	EMI	PLOYE	E 2	EMF	PLOYE	E 3	DEMADKO
ITEM	QUESTIONNAIRE	С	NC	NA	С	NC	NA	С	NC	NA	REMARKS
1	What do you know about work hazard, risk evaluation and control?										
2	When do you review your risk control measure?										
3	How often is the SHC meeting conducted?										
4	Who is the Chairman of the committee?										
5	Have you attended any related safety and health training during the project period?										
6	Have you attended any accident investigation training?										
7	Are you involved in the safety training/promotion at the site?										
8	Do you check the temporary structures are installed and fixed according to its intended use or PE design?										
	TOTAL SCORE										

# ANNEX C.3 QUESTIONAIRE (CATEGORY C - WORKERS)

ITEM	QUESTIONNAIRE	QUESTIONNAIRE WORKER 1 WOR		ORKE	R 2	W	ORKE	R 3	WORKER 4			WC	ORKE	R 5	REMARKS		
	C NC NA C NC NA C NO	CN	IA  C	;   N			C N		IA								
1	OSH Policy is communicated to you?																
2	Hazard and prevention of your work is communicated to you?																
3	Do you know who is the Safety and Health Officer/Site Safety Supervisor?																
4	Have you ever heard about workplace SHC?																
5	Do you hold CIDB Green Card?																
6	Have you undergone specific workplace induction course?																
7	Have you ever attended a toolbox meeting?																
8	Have you participated in any Safety Campaign?																
9	Are you a competent operator with valid license/authorised to operate this machinery/ equipment/vehicle?																
10	Is there a safety checklist for you to fill up prior to operating the machinery?																
11	How do you handle chemicals / hazardous materials at the site?																

ANNEX C.3 QUESTIONAIRE (CATEGORY C –WORKERS) (continued)

ITEM		WC	ORKE	R 1	W	ORKE	R 2	W	ORKE	R 3	WC	ORKE	R 4	WC	ORKE	R 5	REMARKS
ITEM	QUESTIONNAIRE	С	NC	NA	С	NC	NA	С	NC	NA	С	NC	NA	С	NC	NA	
12	Do you know what to do during an emergency/accident?																
13	What would you do if you witness someone injured?																
14	Can you show me the assembly point?																
15	Can you identify your First Aider?																
16	Where is the location of the First-Aid Box?																
17	Where is the nearest Fire Extinguisher?																
	TOTAL SCORE																

# ANNEX C.3 QUESTIONAIRE (CATEGORY C - WORKERS) (continued)

	ITEM QUESTIONNAIRE	WORKER 6			W	ORKE	R 7	WORKER 8		W0	ORKE	R 9	DEMARKS	
	QUESTIONNAIRE	С	NC	NA	С	NC	NA	С	NC	NA	С	NC	NA	REMARKS
1	OSH Policy is communicated to you?													
2	Hazard and prevention of your work is communicated to you?													
3	Do you know who is the Safety and Health Officer/Site Safety Supervisor?													
4	Have you ever heard about workplace SHC?													
5	Do you hold CIDB Green Card?													
6	Have you undergone specific workplace induction course?													
7	Have you ever attended a toolbox meeting?													
8	Have you participated in any Safety Campaign?													
9	Are you a competent operator with valid license/authorised to operate this machinery/ equipment/vehicle?													
10	Is there a safety checklist for you to fill up prior to operating the machinery?													
11	How do you handle chemicals/hazardous materials at the site?													

## ANNEX C.3 QUESTIONAIRE (CATEGORY C - WORKERS) (Continued)

		WC	ORKE	R 6	W W	ORKE	R 7	W0	ORKE	R 8	W W	ORKE	R 9	REMARKS
ITEM	QUESTIONNAIRE	С	NC	NA	С	NC	NA	С	NC	NA	С	NC	NA	REWIARRS
12	Do you know what to do during an emergency/accident?													
13	What would you do if you witness someone injured?													
14	Can you show me the assembly point?													
15	Can you identify your First Aider?													
16	Where is the location of the First-Aid Box?													
17	Where is the nearest Fire Extinguisher?													
	TOTAL SCORE													

#### SECTION 3: SHASSIC ASSESSOR GUIDE

## ANNEX D.1 DOCUMENT CHECK - ASSESSOR GUIDE (CONSTRUCTION PLANNING STAGE)

ITEM	CHECKLIST	GUIDE
A	<b>OSH POLICY</b> (NOTE: OSH Policy is only applicable to org	ganisations with more than five (5) employees)
1	Whether there is a written OSH Policy Statement?	To confirm availability of OSH Policy statement during the inspection (OSHA 1994 Section 16 and ISO 45001:2018
2	Has the SHC conducted a review to ensure suitability of OSH Policy Statement?	Clause 5.2) To confirm the policy statement has been reviewed regularly by SHC and make a recommendation to the employers in order to ensure the policy remains relevant and appropriate (OSH [SHC] Regulations 1996, Regulation 11 (d))
3	Whether project OSH Policy Statement was written in Bahasa Malaysia?	To confirm availability of policy statement written in Bahasa Malaysia (Clause 5.2 ISO 45001:2018)
4	Whether OSH Policy Statement was written in English?	To confirm availability of policy statement written in English (Clause 5.2 ISO 45001:2018)
5	Check whether Project OSH Policy is signed by the top management.	To check the Policy is signed by current PD or PM or both with name (s) written on it (Clause 5.2 ISO 45001:2018)
6	Check whether the OSH Policy is dated or otherwise.	To check for the date printed on the project OSH Policy statement (Clause 5.2 ISO 45001:2018)
7	Written policy statement specific to the nature of work as per the work scope.	To confirm availability of an OSH policy statement specific to the size and nature of a construction project (Clause 5.2 ISO 45001:2018)
		For example: Construction industry or building construction or infrastructure construction, and etc.

o check the availability of written action an and approved by project top anagement
ease refer to:
• ISO 45001:2018 Clause of 6.1
• Sub-clauses of 6.1.2, 6.1.3 and 6.1.4
• Sub-sub-clauses of 6.1.2.1, 6.1.2.2 and 6.1.2.3.
check the availability of written tion plan and approved by project top anagement.
ease refer to:
• ISO 45001:2018 Clause of 6.1
• Sub-Clauses of 6.1.2, 6.1.3 and
<ul> <li>Sub-sub-clauses of 6.1.2.1,</li> <li>6.1.2.2 and 6.1.2.3</li> </ul>
<ul> <li>ISO 45001:2018 Cla</li> <li>Sub-Clauses of 6.1.</li> <li>6.1.4</li> </ul>

С	DETERMINATION OF LEGAL REQUIREM	ENTS AND OTHER REQUIREMENTS
1	Are there documented legal requirements and other requirements Action Plan?	To check the availability of legal registers and legal requirements and other requirements Action Plan.
		Latest amendments of the following should be updated in the register as minimum:
		<ul> <li>a) OSHA 1994 (Act 514) inclusive of Regulations, Orders, Exemptions, Prohibition and Schedules</li> <li>b) FMA 1967 (Act 139) inclusive of Regulations, Orders, Exemptions, Prohibition and Schedules</li> <li>c) DOSH, Code of Practice for Road Transport Activities, 2010</li> <li>d) DOSH, Industrial Code of Practice for Safe Working in Confined Space, 2010</li> <li>e) Factories and Machinery (Person-in- Charge) (Amendment) Regulations, 2014</li> <li>f) Exemption of CF for Hoisting Machine Order 2015</li> <li>g) CIDB Act 1407 (Amendment) (Act 2011) inclusive of Regulations, Orders, Exemptions, Prohibition and Schedules</li> <li>h) Permits, licenses or other forms of authorisation</li> <li>i) Judgements of courts or administrative tribunals</li> <li>j) Treaties, conventions, protocols</li> <li>k) Collective bargaining agreements</li> <li>l) The organisation's requirements</li> <li>m) Contractual conditions</li> <li>n) Employment agreements</li> <li>o) Agreements with interested parties</li> </ul>
		<ul> <li>p) Agreements with health authorities</li> <li>q) Non-regulatory standards, consensus standards and guidelines</li> <li>r) Voluntary principles, codes of practice, technical specifications, charters</li> <li>s) Public commitments of the organisation or its parent organisation</li> <li>(ISO 45001:2018 Sub-clause 6.1.3)</li> </ul>
2	Project management personnel are accessible to up-to-date legal requirements and other requirements?	To check whether the respectively accessibility are reflected in legal requirements and other requirements action plan (ISO 45001:2018 Sub-clause 6.1.3)
3	Is there a valid CIDB Registration Certificate?	To check whether the main contractor has a valid license with CIDB (CIDB Act 520 (Amendment 2011), Section 25)
4	Do all project construction personnel possess valid CIDB Green Card?	To check whether the main contractor employees register/list or has a log book on CIDB Green Card records and has declared and submit the awarded contract to CIDB (CIDB Act 520) (Amendments 2011), Section 33 (1)

5	Project site registered with JKKP/DOSH?	To check the availability of form JKJ 103
D	OCCUPATIONAL SAFETY & HEALTH OE	BJECTIVES
1	Are OSH objectives evaluated from time to time?	To obtain report and action plan that are approved by project top management on evaluation of project OSH objectives and relevant plan to achieve them. (ISO 45001:2018 Sub-clause 6.2.1 and 6.2.2)
2	OSH objectives are integrated in other work activities or procurement process?	To check the project OSH objectives reflected in project OSH plan and management & work procedures

# DOCUMENT CHECK

# (CONSTRUCTION)

ITEM	CHECKLIST	GUIDE
Α	OSH ROLES AND RESPONSIBILTIES	
1	Whether the roles and responsibilities of all project's personnel documented?	<ul> <li>a) To verify OSH duties and responsibilities, authority and accountability of employees of all levels as per the personnel in the project's organisation chart and spelled in the Project OSH plan or employees' Job Description records</li> <li>(OSHA 1994, Section 15 and 24) and ISO 45001:2018 Clause 5.3 and 5.4)</li> </ul>
2	Whether the roles and responsibilities of all project's personnel is communicated to them?	To confirm that the OSH responsibilities are incorporated in either Safety Induction Minutes, Training Module Minutes, Toolbox Meeting Minutes or signed-off evidence, etc. (OSHA 1994, Section 15 and 24) and ISO 45001:2018 Clause 5.3 and 5.4)
3	Whether the project SHC is established in accordance with OSH (SHC) 1996 Regulations?	<ul> <li>a) To obtain the project organisation chart</li> <li>b) To confirm with the Committee Organisation Chart, minutes of meeting and meeting attendance name list, appointment letter (OSHA 1994, Section 30) and (OSH [SHC] Regulations 1996))</li> </ul>
4	There is Site Safety Supervisor appointed for Building Operation and Works Engineering Construction (BOWEC) Work Activities.	To check in the project's organisation chart and appointment letter of respective Site Safety Supervisor with DOSH
5	Designated Persons (DP) are assigned for respective BOWEC work activities.	To check in project organisation chart and appointment letter of respective DP
6	There is a SHO employed for the project, which is valued at more than RM20 million.	To check in project organisation chart and appointment letter of respective registered SHO with DOSH
в	COMPETENCE TRAINING AND AWAREN	ESS
1	There is appropriate documented information on employee's competency.	To check competent employees register or log book or name list. (ISO 45001:2018 Sub-clause 7.2)
2	There is OSH Induction Training conducted.	To check OSH Induction training record (OSHA 1994 and Section 15 (2) (c) and ISO 45001:2018 Sub-clause 7.2 and 8.1.1 (2)
3	Necessary competency and training required for employees have been identified.	To check OSH Training Need Analysis (TNA) (ISO 45001:2018 Sub-clause 7.2 and OSHA 1994 Section 15 (2)(c)

	<b>T</b> ' <b>O ( T</b> ' <b>)</b>	To check with Competency, Training and
4	There is Competence, Training and Awareness Action Plan.	Awareness Action Plan.
		(ISO 45001:2018 Sub-clause 7.2 and OSHA 1994 Section 15 (2)(c)
5	Requirement and Competency, Training and Awareness is made known to employees.	To check with Induction, Training module, Letter or memo to employees, instruction or directive in action plan (ISO 45001:2018 Sub-clause 7.2 and OSHA 1994 Section 15 (2) (c)
с	COMMUNICATION, PARTICIPATION AND	CONSULTATION
1	There is proof of communication related to OSH Management System.	To check minutes of meeting, letter, memo directive, action plan on communication, consultant and participation of workers related to OSH MS
		(ISO 45001:2018 Sub-clause 7.3)
2	There is proof of workers' participation and consultation.	To check minutes of meeting, letter, memo directive, action plan on communication, consultant and participation of workers related to OSH MS
		(ISO 45001:2018 Sub-clause 5.4)
3	Project Safety and Health Committee is established and meeting conducted on monthly basis.	To check, letter, memo, minutes of meeting, directive by project top management on establishment of project SHC
		(OSHA 1994 Section 30 and OSH (SHC) Regulation 1996)
4	Project Safety and Health Committee is involved for improvement of the OSH Management System.	To check, letter, memo, minutes of meeting, directive by project top management on establishment of project SHC
		(OSHA 1994 Section 30 and OSH (SHC) Regulation 1996)

D	DOCUMENTED INFORMATION	
1	There is a written directive for creating and updating documented information.	To check for the availability of written directive for creating and updating documented information (ISO 45001:2018 Sub-clause 7.5)
2	There is a register/log for all available OSH Management System.	To check the availability of register/log for all available documented information on OSH Management System (ISO 45001:2018 Sub-clause 7.5)
3	There is an Action Plan for storage, protection, retrieval, retention and disposal of records.	To check the availability Action Plan for storage, protection retrieval retention and disposal of records (ISO 45001:2018 Sub-clause 7.5)
Е	OPERATIONAL PLANNING AND COM	ITROL
1	There are documents on hazard elimination and risk reduction using Hierarchy of Control.	To check with HIRARC, JSA or other Risk Assessment and Risk control documents. Hierarchy of control or a combination of hierarchy of controls is taking into consideration as recommended control measures (ISO 45001:2018 Sub-clause 8.1.2)
2	There are Safe Work Procedure (SWP) for three (3) high-risk work activities.	To check SWP or SWI or SOP of the three high risk work activities determined by SHASSIC Assessor
3	There is action plan on controlling temporary or permanent changes of work processes.	To check with document related to managing changes of work technology, equipment, facilities, work practices or procedures, design specification, raw materials, staffing, standard or regulations (ISO 45001: 2018 Sub-clause 8.1.3)
F	EMERGENCY PREPAREDNESS AND	, , , , , , , , , , , , , , , , , , ,
1	There is document/s in potential emergency situation identification and initial evaluation.	To check that there is document/s on anticipated emergency situation identification and initial evaluation
		(ISO 45001:2018 Sub-clause 8.2)
2	There is a project Emergency Response Plan developed.	To check that there is a Project Emergency Response Plan established, implemented and maintained
		(ISO 45001:2018 Sub-clause 8.2)
3	There is a project Emergency Response Team established.	To check that there is Project Emergency Response Plan established, implemented and maintained
_		(ISO 45001:2018 Sub-clause 8.2)
G	PERFORMANCE MEASUREMENT AN	
1	There is an Action Plan developed to monitor, measure, analyse and evaluate OSH performance.	To check document/s or record/s in regards to performance monitoring, measurement, analysing and evaluating activities.
		(ISO 45001:2018 Clause 9.1)

2	Reports on monitoring, measuring, analysing and evaluating OSH performance are reviewed by project top management.	To check report on monitoring, measuring, analysing and evaluating OSH performance is reviewed by project top management. (ISO 45001:2018 Sub-clause 9.1.1)
3	There is an Action Plan developed to evaluate legal requirements and other requirements compliances.	To check document or record on the process of identifying gaps in compliance. (ISO 45001:2018 Sub-clause 9.1.2)
н	INCIDENT, NONCONFORMITY AND C	CORRECTIVE ACTION
1	There is an Action Plan for reporting, investigating and taking action related to incident and Nonconformity determination and managing.	To check the availability of documented Action Plan for reporting, investigating and taking action related to incident and Nonconformity determination and managing
		(ISO 45001:2018 Sub-clause10.2)
2	Incident record/logbook/register is established.	To check the availability of documented Incident, Nonconformity and corrective action record/logbook/ register
		(ISO 45001:2018 Sub-clause 10.2)
I	INTERNAL AUDIT PROGRAMME	
1	There is an Action Plan for Internal Audit programme established, implemented and maintained.	To checked documented audit plan including frequency, methods, responsibilities, consultation, reporting, auditor selection, etc.
		(ISO 45001:2018 Sub-clause 9.2.2)
2	DOSH Site Visit or Inspection Log Book is maintained.	To check the availability of DOSH Site Visit or Inspection Log Book
3	Audit Report is reported to relevant managers for their further action.	To check audit report transmittal/memo/letter, etc.
		(ISO 45001:2018 Sub-clause 9.2.2)
4	There is action taken to address Nonconformity and continual improvement of OSH performance.	To check with the documented document on Nonconformity and continual improvement action taken
		(ISO 45001:2018 Sub-clause 9.2.2)
J	CONSTRUCTION WORK ACTIVITIES	
1	Records on Temporary & falsework are checked and approved prior to use.	Assessor to check the availability of a Temporary occupant license (TOL) issued by the local authority (UBBL 1984)
2	Site preparation - Safe Work Procedures (SWP)	Assessor to confirm the availability of site preparation SWP or any similar document prepared prior to site mobilisation (date and approved by consultant/PM) (OSHA 1994, Section 15)
3	Fitness Certificate (PMA)	To check for availability of original and valid "Perakuan Kelayakan Mesin Angkat" (PMA) and is visibly displayed on/at the machinery (FM [NCFAI] Regulations 1970, Regulation 10)

4	Fitness Certificate (PMT)	Factories and machinery (Exemption of certificate of fitness for unfired pressure vessel) order 2017
5	Machinery maintenance record	To check for the availability of warning/safety notice/tagging on the machinery during maintenance and servicing (FMA 1967, Section 18/ OSHA 1994, Section 15)
6	Local authorities' approval to clear bush, remove top soil or felling of trees.	To check for availability of approval from local authorities.
7	Hoarding erection	Assessor to confirm the availability of a safe work procedures (SWP) for the erection of hoarding and observe the condition of hoarding, maintained as per stated in the SWP, based on approved drawings (Guideline for Public Safety, DOSH 2007, Section 11.2)
8	Fogging	To check records on fogging records on fogging activities carried out at construction site.

ANNEX E.1	
WORKPLACE INSPECTION - ASSESSOR GUIDE	

ITEM	CHECKLIST	GUIDES	
Α	SITE OSH MANAGEMENT		
1 There is displayed Project Safety OSH Policy and communicated to all	Assessor to obtain hard copy of Project Safety OSH Policy and observed that policy had been displayed adequately at various strategic locations		
	employees.	(ISO 45001:2018 Sub-clause 5.2)	
2	Project site JKKP registration number displayed at site.	Assessor to obtain a copy of Form JKJ 103 as physical evidence	
		(FMA 1967 Section 35)	
3	Are there any OSH Site Rules displayed on project site?	Assessor to observe that there is OSH Site Rules displayed on project site	
		(Section 15 of OSHA 1994)	
в	MOVEMENT OF VEHICULAR TRA	FFIC	
1	Whether traffic movement plan developed?	Assessor to observe that there is traffic movement arrangement observed on site (Traffic signage, Flagman, route indicators, etc.) (FM [BOWEC] Regulations 1986, Regulation 18)	
С	SIGNAGE AND COLOUR CODE (NOTE: Visual inspection to check appropriate usage of international color codes for signage and location)		
1	Mandatory Signage in BLUE	Assessor to observe that there are signages for PPE usage such as safety helmet, safety footwear, safety vest, safety eye protection, full body harness, etc. are displayed adequately (MS2558:2014)	
2	Prohibition Signage in RED	Assessor to observe that there are prohibition signage such as No Entry, No Smoking, No Naked Light, etc. are adequately displayed (MS2558:2014)	
3	Warning Signage in YELLOW	Assessor to observe that there are warning signage such as Warning Overhead Load, Warning Slippery Floor, etc. are adequate displayed (MS2558:2014)	
4	Safe Signage in GREEN	Assessor to observe that there are safe signage such as First Aid Box and Room locations, Assembly Point/Area, safe escape route, etc. are adequately displayed (MS2558:2014)	
5	Assembly point with signage	Sign board placed at identified assembly point area and clearly visible by everyone.	

# WORKPLACE INSPECTION

# (CONSTRUCTION WORK ACTIVITIES)

ITEM	CHECKLIST	GUIDES
Α	DESIGNATED PERSON APPOINTED	
1	Competent and Trained Person	Assessor to obtain copy of respective competency or training certificate
		(ISO 45001:2018 Sub-clause 7.2)
В	EQUIPMENT/MACHINERY	
1	Approved PE Designed	Assessor to obtain Approved PE Design for respective equipment/machinery (Chute above 12 meter, Ramp for vehicle access, Scaffold above 15 meter for frame and modular and 40 meter for tubular, loading or catch platform, etc.)
2	Machinery Fitness Certificate (PMA/PMT)	To check the availability of original and valid "Perakuan Kelayakan Mesin Angkat" (PMA) or "Perakuan Kelayakan Mesin Tekanan" (PMT) and is visibly displayed on/at the machinery (FM [NCFAI] Regulations 1970, Regulation 10)
3	Competent/Trained Operator	To check the availability of original and valid license of machinery operator (OSHA 1994 Section 26)
4	Machinery Guarding/Fencing	When power-operated tools are designed to accommodate guards, they shall be equipped with such guards when in use (FM [BOWEC] Regulations 1986, Regulation 147)
5		To check whether the rigger has attended training before assigned to carry out the task. Pass experience also can be considered.
С	MATERIAL	
1	Material Handling Arrangement	To check the handling of hazardous and non- hazardous materials as per approved procedures (OSH [USECHH] Regulations 2000)
2		To observe that all material in bags, containers, timber or bundles and other material stored in tier shall be stacked, blocked, interlocked and limited in height so that it will be stable and otherwise safe against sliding and collapse (FM [BOWEC] Regulations 1986, Regulation 119)
3	Material Safety Data Sheet	To check the availability of Safety Data Sheet for hazardous material or substances (OSH [CLASS] Regulations 2013)
4		To comply to approved and documented action plan (FM [BOWEC] Regulations 1986, Regulation 104)

D	WORKING ENVIRONMENT	
1	Safety/Notices Signage displayed	Simple but effective warning notice in national language shall be placed (FM [BOWEC] Regulation 1986
2	Permit to Work issued for high risk activities	To check the availability and usage of permit to work at site (Hot Work Permit, Working at Height, Deep Excavation Permit, and Confined Space Work Permit etc.)
3	Safe Access and Egress	To observe for the provision of access/egress, clearly marked, free from any obstruction. Stairways, ramps or runways shall be provided (FM [SHW] Regulations 1970, Regulation 7)
4	Ventilation	To check adequate natural/mechanical ventilation provided at the workplace (FMA 1967, Section 22) and Regulations 25 of FM(SHW) Regulations 1970
5	Fall protection against falling from height (2 meter and more) available during construction activities.	To visually observe the guardrails and handrails, toe boards, safety net and etc.
6	Illumination	To visually observe sufficient light (natural or powered) at the work vicinity (FMA 1967, Section 22(e)) and Regulations 29 of FM(SHW) Regulations 1970
7	Movement of Vehicular Traffic	To visually observe the vehicular traffic control as per approved plan; warning sign, channelising device, flagman, etc. (FM [BOWEC] Regulations 1986, Regulation 18)
8		To check all temporary works compliance against PE's design.
9	Workers are using correct PPE	To check on the correct use of PPE by workers.
10	Standing supervision by the site safety supervisor / Designated Person for hazardous activities e.g. working at height, mechanical lifting or etc.	
11	Openings at inside building are properly guarded and secured from falling of objects / worker.	To check all openings inside buildings are properly guarded and secured from falling of objects / workers.

#### ANNEX F.1

#### **QUESTIONNAIRE - ASSESSOR GUIDE**

# (CATEGORY A - MANAGERIAL)

ITEM	QUESTIONNAIRE	GUIDES
1	Are prevention of work related injury and/or health and the provision of safety and health workplaces and activities are committed/demonstrated by top management?	Interviewee should be able to answer that "we do oblige and obligation is reflected in our Project OSH policy statement, OSH objectives and Project OSH Plan"
2	Are workers consultation and participation in OSH programme and activities assured by top management?	Assessor to obtain relevant documents such as documented instruction or directive, minutes of meeting, Project OSH Plan, etc.
3	Who are the chairman and secretary for SHC meeting?	Interviewee shall answer that PM / PD / CM will chair the site meeting. The secretary shall be SHO assigned for the project. If the project is below RM20 million, then SSS will act as secretary.
4	There is an organisational culture that supports the expected results of the OSH MS?	Assessor to obtain documented instruction or directive in the regard
5	What do you know about HIRARC?	Interviewee should be able to explain and elaborate project health and safety hazards/risks management processes such as HI, RA, RC, Hierarchy of control, etc.
6	Have you ever been involved in HIRARC exercises?	Assessor to obtain documented evidence, i.e. attendance list, minutes of meeting, etc.
7	What is NADAPOD Regulations?	Notifications and reporting of accident, dangerous occurrence, occupational poisoning and occupational disease & Regulations made under OSHA 1994 (Act 514)
8	How is the project OSH performance being evaluated?	report (internal audit report, inspection report, etc.)
9	Are you personally involved in OSH management review and continual improvement for this project?	Assessor to obtain documented evidence, i.e. attendance list, minutes of meeting, etc.

#### QUESTIONNAIRE

ITEM	QUESTIONNAIRE	GUIDES
1	What do you know about work hazard, risk evaluation and control?	Interviewee should be able to elaborate the HI, RA, RC and hierarchy of control processes
2	When do you review your risk control measure?	When there are changes in work method, machinery or equipment used for the work, new working environment and after every accident.
3	How often is the SHC meeting conducted?	SHC Meeting being conducted at least once a month ref Act 139 FM (BOWEC) (Safety) Regulations 27(3) or at least once in 3 months ref Act 514 OSH (SHC) Regulations 21(1).
4	Who is the Chairman of the committee?	Assessor to check with project SHC organisation chart for the answer
5	Have you attended any related safety and health training during the project period?	Assessor to check with training record and attendance
6	Have you attended any accident investigation training?	Assessor to check with project accident investigation training attendance list/records
7	Are you involved in the safety training/promotion at the site?	Assessor to check with project training and promotion records, SHC minutes of meeting, training attendance list/records
8	Do you check the temporary structures are installed and fixed according to its intended use or PE design?	Interviewee should be able to elaborate how does the checking process before allowing the workers carry out the activities identified in HIRARC.

# (CATEGORY B - SUPERVISORY)

#### QUESTIONNAIRE (CATEGORY C - WORKERS)

ITEM	QUESTIONNAIRE	GUIDES
1	OSH Policy is communicated to you?	Interviewee should be able to describe what is OSH policy and where it was carried out. The answer 'yes' must be elaborated.
2	Hazard and prevention of your work is communicated to you?	Interviewee should be able to describe hazards inherent in his work and what are the relative control measures that are put into place or provided for him by his employer. The answer 'yes' must be elaborated.
3	Do you know who is the Safety and Health Officer / Site Safety Supervisor?	Interviewee should be able to mention the name of Safety and Health Officer or Site Safety Supervisor
4	Have you ever heard about workplace SHC?	Interviewee should be able to describe what is workplace SHC.
5	Do you hold CIDB Green Card?	To request the employee to show the CIDB Green Card. Assessor to check and confirm the validity of the Green Card (CIDB Act 520 Pindaan 2011, Section 33 (1))
6	Have you undergone specific workplace induction course?	The interviewee should be able to explain when he/she underwent the course as these works may require to undergo specific safety course prior to commencing with the work at the site. Assessor to obtain a hard copy of Safety and Health Induction records prior to the interview and confirm the attendance
		OSHA 1994 Section 15
7	Have you ever attended a toolbox meeting?	Assessor to confirm the attendance of the employee by checking the copy of the past Toolbox Talk attendance list (Assessor to obtain a copy of the Toolbox Talk attendance list)
		OSHA 1994 Section 15
8	Have you participated in any Safety Campaign?	The interviewee should be able to explain the campaign which he/she had attended (Assessor to obtain Safety Campaign Records prior to interview).
9	Are you a competent operator with valid license/authorised to operate this machinery/ equipment/vehicle?	The interviewee should be able to show the document to confirm valid license or letter of authority from the employer ISO 45001:2018 Sub-clause 7.2
10	Is there safety checklist for you to fill up prior to operating the machinery?	Assessor to confirm reply with safety checklist. Assessor to obtain safety checklist records prior to the interview
		OSHA 1994, Section 15.
11	How do you handle chemicals/hazardous materials at the site?	The interviewee should be able to describe the requirements pertaining to USECHH 2000 Regulations, and CLASS Regulations 2013 examples labelling, handling, transporting, storage, etc.

12	Do you know what to do during an emergency/accident?	The interviewee should be able to describe what he/she needs to do during an emergency, which is described in the Emergency Preparedness Plan. To confirm the response with Emergency Preparedness Plan - Emergency Action Flow Chart (ISO 45001:2018 Sub-clause 8.2)
13	What would you do if you witness someone injured?	The interviewee should be able to explain his actions when he witnesses someone who is injured. Assessor to confirm the response with Accident Investigation (AI) & Response Plan (RP) (ISO 45001:2018 Sub-clause 10.2)
14	Can you show me the assembly point?	The interviewee should be able to show the nearest assembly point. Assessor to confirm with Emergency Preparedness Plan for the location of assembly point (OSH [CIMAH] Regulations 1996)
15	Can you identify your First Aider?	The interviewee should be able to identify the First Aider. Assessor to confirm with Emergency Preparedness Plan (FM [SHW] Regulations 1970, Regulation 38)
16	Where is the location of the First-Aid Box?	The interviewee should be able to show the nearest location of the First-Aid Box. To confirm location with Emergency Preparedness Plan (FM [SHW] Regulations 1970, Regulation 38)
17	Where is the nearest Fire Extinguisher?	The interviewee should be able to show the nearest Fire Extinguisher. Assessor to confirm with Emergency Preparedness Plan (FMA 1967, Section 13)

#### ACKNOWLEDGEMENT

The committee which developed this Construction Industry Standard consists of the following representatives:

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Azman bin Hussain	Department of Occupational Safety and Health Malaysia
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