



SPECIFICATIONS FOR OCCUPATIONAL SAFETY AND HEALTH IN CONSTRUCTION WORKS 2025



Occupational
Safety &
Health (OSH)

**KAWALAN DOKUMEN****Maklumat Dokumen**

Tajuk Dokumen	<i>Specification For Occupational Safety And Health In Construction Works 2025</i>
Pihak Yang Mengawal	Pengarah Cawangan Dasar dan Pengurusan Korporat (CDPK) Ibu Pejabat Jabatan Kerja Raya Malaysia

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FOREWORD

The JKR Specifications for Occupational Safety and Health in Construction Works 2025 is an essential component in the construction of JKR's project. This Specification provides an improved guidance and reference in implementation of OSH monitoring and hazard control based on current best practices. The purpose of the Specifications for Occupational Safety and Health in Construction Works 2025 is to establish uniformity with JKR Standard Specification for Building Works and JKR Standard Specification for Road Works.

This particular document, the "Specifications for Occupational Safety and Health in Construction Works 2025", is an improved specifications of the Specifications for Occupational Safety and Health for Engineering Construction Works 2019. The compilation of this document was carried out through many discussions and deliberations that had been held by the technical committee. The draft had also been presented and discussed at length in a specially held workshop to get feedback and comments from relevant parties involved, which were then carefully considered and incorporated into the specification wherever appropriate or necessary.

The Specifications has also gone through the different phases of vetting and approval before the production of its final draft and printed copy. It will be reviewed and updated from time to time to cater for any changes in policies and the inclusion of current requirements, if necessary. Any feedback or improvement to be considered for future revisions should be forwarded to Bahagian Pengurusan Kualiti, Cawangan Dasar dan Pengurusan Korporat, JKR Malaysia.

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Finally, the publisher would like to express its gratitude to the above committee members, and also all those who were involved, directly or indirectly, but their names missed out from being mentioned above, for their undying effort and substantial contribution towards the successful completion of this document.

ABBREVIATIONS

The following abbreviations appearing in these specifications have their meanings as assigned against them:

(i).	S.O	- Superintending Officer
(ii).	P.D	- Project Director
(iii).	SHO	- Safety and Health Officer
(iv).	PEPC	- Professional Engineer with Practicing Certification
(v).	CP	- Competent Person registered with DOSH
(vi).	DP	- Designated Person appointed by Employer
(vii).	CIDB	- Construction Industry Development Board
(viii).	DOSH	- Department of Occupational Safety and Health
(ix).	MOH	- Ministry of Health
(x).	SPJ	- Standard Specification For Road Works
(xi).	ATJ	- Arahan Teknik Jalan
(xii).	CLASS	- Classification, Labelling and Safety Data Sheet of Hazardous Chemicals
(xiii).	USECHH	- Use and Standard of Exposure of Chemical Hazardous to Health
(xiv).	SPB	- Sistem Pengurusan Bersepadu
(xv).	PTW	- Permit to Work
(xvi).	CDM	- Occupational Safety And Health (Construction Work) And Management) Regulations 2024

REGULATIONS AND LEGISLATIONS

List of Related Acts, By-Laws, Regulations, Codes of Practice, Standards and Guidelines Referred To (latest amendment but not limited to) In This Specification:

1. Occupational Safety And Health Act (OSHA), 1994 (Act 514) and Regulations under the act
2. Uniform Building By-Law (UBBL), 1984 (Amendment 2021)
3. Environmental Quality Act (EQA), 1974
4. Construction Industry Development Board Act, 1994
5. Local Government Act, 1976
6. Street, Drainage and Building Act, 1974
7. Electricity Supply Act, 1990
8. Electricity Regulations, 1994
9. Fire Services Act, 1988
10. Explosives Act, 1957
11. Irrigation Areas Act, 1953
12. The Radiation Protection (Basic Safety Standards) Regulations 1987
13. MS 2318 : Code of Practice for Demolition of Buildings, 2010
14. MS 2558 : Safety and Health Signage Used In The Workplace
15. BS 5228 : Code of Practice for Noise control on Construction and Demolition Site
16. Code of Practice for Safe Working In A Confined Space, 2001, DOSH
17. Guidelines For Hazard Identification, Risk Assessment And Risk Control, 2008,
18. Guidelines For The Prevention of Falls At Workplaces, 2007, DOSH
19. Guidelines on Occupational Vibration, 2003, DOSH
20. Guidelines On Occupational Safety And Health In Tunnel Construction, 1998, DOSH
21. ISO 45001 : Occupational Safety and Health Management System
22. Guidelines On Occupational Safety And Health Construction Industries Excavation 2017

Note : The contractor at all times need to comply with the provisions of all legislation, regulations and by-laws currently in force with regard and related to the construction works, the environment, safety and health. The relevant legislation, regulations and by-laws including any revisions thereto are as listed in but not limited in regulation and legislation stated in this specification. Compliance with this specification does not of itself confer immunity from legal obligations.

SPECIFICATIONS FOR OCCUPATIONAL SAFETY AND HEALTH IN CONSTRUCTION WORKS 2025

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SPECIFICATIONS FOR OCCUPATIONAL SAFETY AND HEALTH IN ENGINEERING CONSTRUCTION WORKS

1. GENERAL

1.1 General Requirements

1.1.1 Specifications for Occupational Safety and Health in Construction Works 2025 cover the requirement regarding occupational safety and health that all JKR Malaysia projects need to comply with.

1.1.2 This specification shall be read in conjunction with latest version of Standard Specifications for Building Works, Standard Specifications for Road Works and Bill of Quantities for Occupational Safety and Health in Construction Works.

1.1.3 Where a construction work on a construction site is scheduled to last longer than thirty (30) working days or exceed five hundred person days, notification to the Director General shall be given in writing as soon as practicable in referring to the latest version of Regulation 8 and 9, Occupational Safety and Health (Construction Work) (Design and Management) Regulations 2024.

1.1.4 Comply with Section 15: Occupational Safety And Health Act

(i). It shall be the duty of every employer to ensure, so far as is practicable, the safety, health and welfare at work of all his employees.

(ii). Without prejudice to the generality of subsection (i), the matters to which the duty extends include in particular -

- a) the provision and maintenance of plant and systems of work that are, so far as is practicable, safe and without risks to health;
- b) the making of arrangements for ensuring, so far as is practicable, safety and absence of risks to health in connection with the use or operation, handling, storage and transport of plant and substances;
- c) the provision of such information, instruction, training and supervision as is necessary to ensure, so far as is practicable, the safety and health at work of his employees;
- d) so far as is practicable, as regards any place of work under the control of the employer, the maintenance of it in a condition that is safe and without risks to health and the provision and maintenance of the means of access to and egress from it that are safe and without such risks;
- e) the provision and maintenance of a working environment for his employees that is, so far as is practicable, safe, without

- risks to health, and adequate as regards facilities for their welfare at work; and
- f) the development and implementation of procedures for dealing with emergencies that may arise while his employees are at work.

1.1.5 Comply with Construction Industry Development Board (CIDB) Malaysia Act and/or Regulations under the act

- (i). Ensure all workmen at works and before entering the Construction Site must be owned with a valid CIDB Green Card.

1.1.6 The contractor shall take any practicable steps where ever necessary to ensure that any new or existing or temporary structure is stable referring to the latest version of Regulation 21, Occupational Safety and Health (Construction Work) (Design and Management) Regulations 2024.

1.2 Construction Phase Plan - Safety and Health Plan (S-Plan)

1.2.1 The Contractor shall submit S-Plan to the S.O / P.D, within one (1) month after the receipt of Date of Site Possession. It shall include the following:

- (i). The Contractor shall submit in writing to the S.O/ P.D, The Hazard Identification, Risk Assessment and Determining Control (HIRADC) before commencement of each activity throughout the contract period.
- (ii). S-Plan shall be endorsed by the Owner/Director of the company with the date and version on the cover page.

1.2.2 The contractor shall provide a complete S-Plan as stated in **Appendix A**.

1.2.3 The S-Plan shall be monitored and reviewed periodically when / after any incident (accident or illness) occurred including but not limited to changes to the project organization chart or changes to the regulations and scope of project.

1.3 Safety And Health Committee (SHC)

1.3.1 The Contractor shall form a Safety and Health Committee to be complied with Occupational Safety and Health (Safety and Health Committee) Regulations and organize meetings at minimum once in every three (3) months as required.

1.3.2 The Contractor shall provide Contractor's Organization Chart and Safety and Health Committee (SHC) Chart which shall describing the staff involved including list of duties and responsibilities.

1.4 Competent Person (CP) And Designated Person (DP)

1.4.1 Safety and Health Officer (SHO)

Safety and Health Officer (SHO) to be stationed only for one place of work at any one time where the total contract price of the project exceeds RM20 million.

1.4.2 Site Safety Supervisor (SSS)

The Contractor shall appoint a competent person who is a Site Safety Supervisor to assist him in complying with the duties imposed upon him by or under these Regulations to be stationed full time at site.

1.4.3 If the Safety and Health Practitioner absent from works, Contractor shall get the permission from DOSH to operate the works without Safety and Health Practitioner or Contractor may require to (temporarily) appoint another Safety and Health Practitioner.

1.4.4 The Contractor shall employ Competent Person(s) (CP) in charge of handling high risk works that defined by DOSH and CIDB.

1.4.5 The Contractor shall conduct Health Measurements (if necessary) by designated/ competent person (example: Occupational Health Doctor/ Medical Practitioner).

1.4.6 The Contractor shall employ Designated Person(s) (DP) for the following works:

- 1.4.6.1 Public vehicular traffic
- 1.4.6.2 Protection of the public
- 1.4.6.3 Inspection of formwork
- 1.4.6.4 Inspection of safety harness
- 1.4.6.5 Inspection of safety nets
- 1.4.6.6 Demolition
- 1.4.6.7 Excavation work
- 1.4.6.8 Cofferdam and caisson work
- 1.4.6.9 Piling work
- 1.4.6.10 Pile testing
- 1.4.6.11 Handling of explosive
- 1.4.6.12 Other works as necessary

1.5 Medical Check-up / Health Surveillance

1.5.1 Medical Report (Health Surveillance) of workmen to be recorded by the Contractor (employer/ self-employed person) for the works exposed to chemicals and hazardous working area as listed in Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000 or latest version. Medical Report (Health Surveillance) shall be conducted by Occupational Health Doctor / Medical Practitioner.

1.6 Personal Protective Equipment (PPE)

1.6.1 Provision and maintenance of Personal Protective Equipment to S.O/P.D staffs at site of adequate quantity and of approved quality as instructed by S.O/P.D. The equipment shall include but not be limited to the following:

- (i). Safety boots
- (ii). Safety helmets
- (iii). Safety harness and life lines (for workmen who work at heights more than 3 m above ground level)
- (iv). Protective gloves
- (v). Safety goggles
- (vi). Safety jackets of reflective type
- (vii). Ear plugs and muffs
- (viii). Gas masks
- (ix). Dust masks
- (x). Head lamp
- (xi). Life jacket
- (xii). Others as necessary

1.6.2 Provision and maintenance on the site during the entire contract period, of the adequate safety equipment to be approved by the S.O/P.D:

- (i). Gas detectors
- (ii). Breathing apparatus
- (iii). Air ventilation pumps
- (iv). Adequate lighting and warning lamps
- (v). Hazard tape
- (vi). Safety barriers

1.7 Safety and Health Programme

1.7.1 The Contractor shall conduct OSH related programme for the workmen including sub-Contractor for the successful implementation of the project referring to Section 15(2)(c), Occupational Safety and Health Act 1994 (Act 514).

1.8 Monthly Safety and Health Report

1.8.1 The Contractor shall submit Monthly Safety and Health Reports and all relevant safety and health informations to the S.O / P.D, in accordance with Appendix B.

1.9 Inspection Report

- 1.9.1 The Contractor shall conduct inspection at the place of work at least once in every three (3) months to ascertain if there is anything prejudicial to the safety and health of persons employed therein:

Provided that the committee may, at any time, make further inspections of any plant therein or any part of the place of work to check on the effectiveness of the measures taken to the safety and health of persons at the place of work.

1.10 Hazards Identification Risk Assessment and Determining Control (HIRADC)

- 1.10.1 The Contractor shall identify potential hazards to employees or, assess their risk, or likelihood of happening and the effects they would have, and the taking of necessary control measures for such hazards.
- 1.10.2 Records of HIRADC shall be kept, maintained and submitted to the S.O/P.D prior to commencement of the work. HIRADC may be reviewed during the course of work as required.

1.11 Site Safety Signage and Information Board

- 1.11.1 The Contractor shall do provision and maintenance of safety and health statistic scoreboard at the entrance of site office / workplace as approved by S.O / P.D
- 1.11.2 The Contractor shall provide and maintain adequate safety and health signage, warning signs and warning lights or as instructed by S.O / P.D. Minimum requirements of signage:
- (i). Sign Plate
Sign plate shall be made of aluminium composite material with total minimum thickness of 4mm with aluminium thickness of 0.2mm for both sides.
 - (ii). Sign Face
The sign face shall comply with the Malaysian Standard Specification for Reflective Sign Faces Materials (MS 1216 or ASTM D4956).
 - (iii). Colour Code Usage
 - a) Red: Prohibition, danger alarm, fire protection equipment, high risk of injury or death, emergency stops and alarms
 - b) Yellow: Warning, caution statements, minor risk of injury, materials handling equipment
 - c) Blue: Mandatory, no immediate hazard
 - d) Green: Emergency escape, safety equipment or information, first aid equipment or location, no danger

1.12 Emergency Response Plan (ERP)

- 1.12.1 The Contractor shall establish a written Emergency Response Plan and shall cover those designated actions employers and employees must take to ensure employee safety from human injuries and fatal accidents, spill, risk of fire or explosion, windstorm, flood and other emergencies.
- 1.12.2 The plan shall be reviewed and communicated to all employees at the following time:
 - (i). initially when the plan is developed
 - (ii). Whenever the employees' responsibilities or designated actions under the plan change; and
 - (iii). Whenever the plan is changed.
- 1.12.3 Before implementing the Emergency Response Plan, sufficient number of persons shall be designated and trained to assist for safe and orderly emergency evacuation.
- 1.12.4 Emergency drill for testing the plan shall be conducted.
- 1.12.5 Emergency route and exit referring to the latest version of Regulation 33, Occupational Safety and Health (Construction Work) (Design and Management) Regulations 2024.
- 1.12.6 Fire fighting equipment: suitable types of firefighting equipment shall be installed and maintained at required locations on the site throughout the contract period referring to the latest version of Regulation 34, Occupational Safety and Health (Construction Work) (Design and Management) Regulations 2024.

1.13 Emergency Response Team (ERT)

- 1.13.1 The Contractor shall establish an Emergency Response Team (ERT) to be at fore front handling the emergency situation and should be trained in fire-fighting, first aid and other related aspects to make sure they are well equipped to execute the ERP procedures in the event of emergencies.

1.14 Notification of Accident, Dangerous Occurrence, Occupational Poisoning and Occupational Disease (NADOPOD)

- 1.14.1 Notification and record keeping:
 - (i). Notification
Accident, dangerous occurrence, occupational poisoning and occupational disease that occur at the workplace shall be notified to relevant authorities
 - (ii). Record keeping
Records of all accident, dangerous occurrence, occupational poisoning and occupational disease that occur at the workplace shall be maintained.

1.14.2 Deciding whether a case should be notified and recorded

- (i). In determining whether a case should be notified and recorded, contractor should follow the “Guidelines on Occupational Safety and Health (Notification of Accident, Dangerous Occurrence, Occupational Poisoning and Occupational Disease) Regulations [NADOPOD]”.

1.15 Traffic Movement Management

1.15.1 The Contractor shall provide and maintain adequate safety including traffic route, traffic warning signs and warning lights at place of works and close proximity of public referring to the latest version of Regulation 29, Occupational Safety and Health (Construction Work) (Design and Management) Regulations 2024.

1.15.2 The Contractor shall provide and maintain traffic control and signage by competent persons including provision of flagmen; where works is in close proximity of public road and reporting to S.O/ P.D. (refer Standard Specification For Road Works Section 19 and latest version of Arahan Teknik Jalan 2C/85).

2 HEALTH AND WELFARE

The Contractor shall provide and maintain at his own risk adequate water supply, power supply, sanitary system, lighting, temporary rest area, first aid facilities and ventilation where required for use in the works and shall pay all costs, fees and charges and comply with all safety regulations, requirements and by-laws in connection therewith referring to the latest version of Regulation 17(1)(h), Occupational Safety and Health (Construction Work) (Design and Management) Regulations 2024.

3 PLANT AND MACHINERIES

The Contractor shall taking measures to ensure that all equipment, machinery and place of works are in proper working condition so as to minimize the amount of noise generated and dust suppression. All works shall be carried out without unreasonable noise and dust suppression. Contractor is responsible for replacement of to replace any machinery and equipment is emitting excessive noise and dust which do not comply to “Peraturan-Peraturan KKP (Pendedahan Bising) 2019”.

3.1 Registration, Validity and Renewal of Certification

- 3.1.1 All plants and machineries shall have valid certification under referring to Section 27B, 27C and 27D, Occupational Safety and Health Act 1994 (Act 514).
- 3.1.2 The Contractor must ensure that the Certificate of Fitness of all related plants and machineries used throughout the contract period are still valid referring to Regulation 6, Occupational Safety and Health (Plant Requiring Certificate Of Fitness) Regulations 2024.

3.2 Operation of Plant and Machinery

- 3.2.1 The Contractor shall ensure that operation of all plants and machineries used in connection with or for the purpose of the works, should refer to the latest version of Occupational Safety and Health Act 1994 (Act 514).

4 SAFE WORKING AREA

4.1 Stability of Structure

- 4.1.1 The Contractor shall take any practicable steps where ever necessary to ensure that any new or existing or temporary structure is stable referring to the latest version of Regulation 21, Occupational Safety and Health (Construction Work) (Design and Management) Regulations 2024.

4.2 Scaffolding

- 4.2.1 The Contractor shall take any practicable steps where ever necessary to ensure that any erection, inspection and dismantle works are referring to the latest version of Section 15, Section 18A and Section 20(3), Occupational Safety and Health Act 1994 (Act 514) and Regulation 21, Occupational Safety and Health (Construction Work) (Design and Management) Regulations 2024 and may adhere to latest guideline (scaffolding) from DOSH.

4.3 Floor Opening/ Manholes/ Open Edges

- 4.3.1 The Contractor shall take any practicable steps where ever necessary to ensure that any floor opening, manholes and open edges work areas are referring to the latest version of Regulation 9(3), Occupational Safety and Health (Construction Work) (Design and Management) Regulations 2024 and may adhere to latest guideline from DOSH.

4.4 Working At Height

- 4.4.1 The Contractor shall take any practicable steps where ever necessary to ensure that any working at height is referring to the latest version of Regulation 19(4) Occupational Safety and Health (Construction Work) (Design and Management) Regulations 2024 and may adhere to latest guideline (working at height) from DOSH.

4.5 Access to Workplace

- 4.5.1 The Contractor shall take any practicable steps where ever necessary to ensure that any access to workplace is referring to the latest version of Regulation 19(4) and Regulation 29(1), Occupational Safety and Health (Construction Work) (Design and Management) Regulations 2024.

4.6 Excavation, Cofferdam and Caisson

- 4.6.1 The Contractor shall take any practicable steps where ever necessary to ensure that any excavation, cofferdam and caisson works are referring to the latest version of Regulation 24, 25 and 26, Occupational Safety and Health (Construction Work) (Design and Management) Regulations 2024 and may adhere to latest guideline on Occupational Safety And Health Construction Industries Excavation 2017 from DOSH.

4.7 Formwork and Concreting

- 4.7.1 The Contractor shall take any practicable steps where ever necessary to ensure that any formwork and shores works are referring to the latest version of CIDB Order (Pindaan Jadual Keempat) 2021, Piawaian Pensijilan Bahan Binaan.
- 4.7.2 A Designated Person (DP) shall supervise the erection of the formwork including the shores, braces and other support and to do inspection regularly during placing of concrete. All records of such inspection shall be kept at worksite.

4.8 Piling Works

- 4.8.1 Where there is any question of stability of structures adjoining area to be piled, such structures shall be supported where necessary by underpinning, sheet piling, shoring, bracing or other means in accordance with the design of a Professional Engineer with Practicing Certificate (PEPC) to prevent injury to any person.
- 4.8.2 All pile-driving equipment shall be inspected daily by a Designated Person (DP) before the start of work. Every piling frame shall be thoroughly examined by an approved person at least once in every twelve months.

4.9 Lifting Works

- 4.9.1 The Contractor shall take any practicable steps where ever necessary to ensure that any lifting works is referring to the latest version of Regulation 19, Occupational Safety and Health (Construction Work) (Design and Management) Regulations 2024 and may adhere to latest guideline (lifting) from DOSH.

4.10 Energy Distribution Installation

- 4.10.1 The Contractor shall take any practicable steps where ever necessary to ensure that any wiring/ cabling and switching are referring to the latest version of Regulation 27, Occupational Safety and Health (Construction Work) (Design and Management) Regulations 2024 and may adhere to latest guideline from DOSH.

5 HAZARDOUS CHEMICALS AND MATERIALS

5.1 Storage

The Contractor shall ensure that chemicals to be stored should be classified refer to the Guidelines on Storage of Hazardous Chemicals: A Guide for Safe Warehousing of Packaged Hazardous Chemicals, DOSH.

5.2 Handling and Labelling

The Contractor shall ensure that chemicals are to be handled, labelled and/or relabelled as per to The Occupational Safety & Health (USECHH) Regulations 2000 and/or The Occupational Safety and Health (CLASS) Regulations, and/or The Pesticides Act 1974 (Latest amendment) and/or The Environmental Quality (Scheduled Wastes) Regulations 2005 (Latest amendments).

6 SPECIAL SAFE WORKING CONDITION

6.1 Confined Space

6.1.1 Including excavations works, underground works, foundation works, caisson piling works, tunneling works, underwater diving, demolition works and places of work as defined in the Code of Practice for Safe Working in a Confined Space, 2001, DOSH.

- (i). The Contractor shall comply with Occupational Safety and Health requirements as listed in Regulation and Legislation.
- (ii). The Contractor shall ensure that closed tanks with restricted means of entry and exit, open manholes, trenches, pipes, flues, ducts, ceiling voids, enclosed rooms such as basements and other places where there is inadequate ventilation and/ or the air is either contaminated or oxygen deficient, be tested by a Competent Person before entry to determine that there are adequate levels of oxygen present and that dangerous amounts of flammable and or poisonous gases are not present.
- (iii). The Contractor shall establish a safe work system for workers who will be carrying out their work in confined spaces.
- (iv). The Contractor shall adopt an entry permit system, so as to ensure that employees and others are aware of the location of anyone required to enter confined spaces.

6.2 Hot Works

6.2.1 Hot Work includes flame cutting, welding, heat treatment, metal spraying, forging, grinding and any similar work that generates heat, flame or sparks. The Contractor shall appoint a Competent Person (CP) to be responsible for any hot works. The Contractor must ensure there is at least one trained person can use the firefighting equipment when performing any hot works.

- 6.2.2 Hot work shall not be performed in a confined space until a Designated Person (DP) has tested the atmosphere and determined that it is not hazardous.

6.3 Blasting and Demolition Works

- 6.3.1 The Contractor shall take any practicable steps where ever necessary to ensure that any blasting and demolition works are referring to the latest version of Regulation 22 and Regulation 23, Occupational Safety and Health (Construction Work) (Design and Management) Regulations 2024 and may adhere to latest guideline from DOSH.

6.4 Lighting

- 6.4.1 The Contractor shall take any practicable steps where ever necessary to ensure that any lighting is referring to the latest version of Regulation 37, Occupational Safety and Health (Construction Work) (Design and Management) Regulations 2024 and may adhere to latest guideline from DOSH.
- 6.4.2 The construction work contractor shall provide suitable and sufficient secondary lighting at any place where there would be any risk to the safety and health.

6.5 Working Over/ Near Water

- 6.5.1 The Contractor shall take any practicable steps where ever necessary to ensure that any working over/ near water is referring to the latest version of Regulation 28, Occupational Safety and Health (Construction Work) (Design and Management) Regulations 2024 and may adhere to latest guideline from DOSH.

REQUIREMENTS OF SAFETY AND HEALTH PLAN (S-PLAN)

1. Project Introductions
2. Management Responsibility
3. OSH Programme
4. Hazard Identification, Risk Assessment and Determining Control (HIRADC)
5. Permit To Work (PTW)
6. Fire Precaution and Protection and Emergency Respond
7. Safety Operation Procedure
8. Investigation and Incident Report
9. Occupational Safety and Health Statistics and Record
10. Employee Health Examination
11. Safety, Health and Welfare
12. List of Machines, Equipment and Plant
13. Traffic Control at Construction Site
14. Personnel Protective Equipment (PPE)

Whenever there is any dispute arise, item listed as per Prosedur Kawalan Keselamatan dan Kesihatan Pekerjaan JKR.PK(O).04B-1 (Format Pelan Keselamatan dan Kesihatan Pekerjaan, S-PLAN) under the latest version of Sistem Pengurusan Bersepadu (SPB), JKR shall be referred.

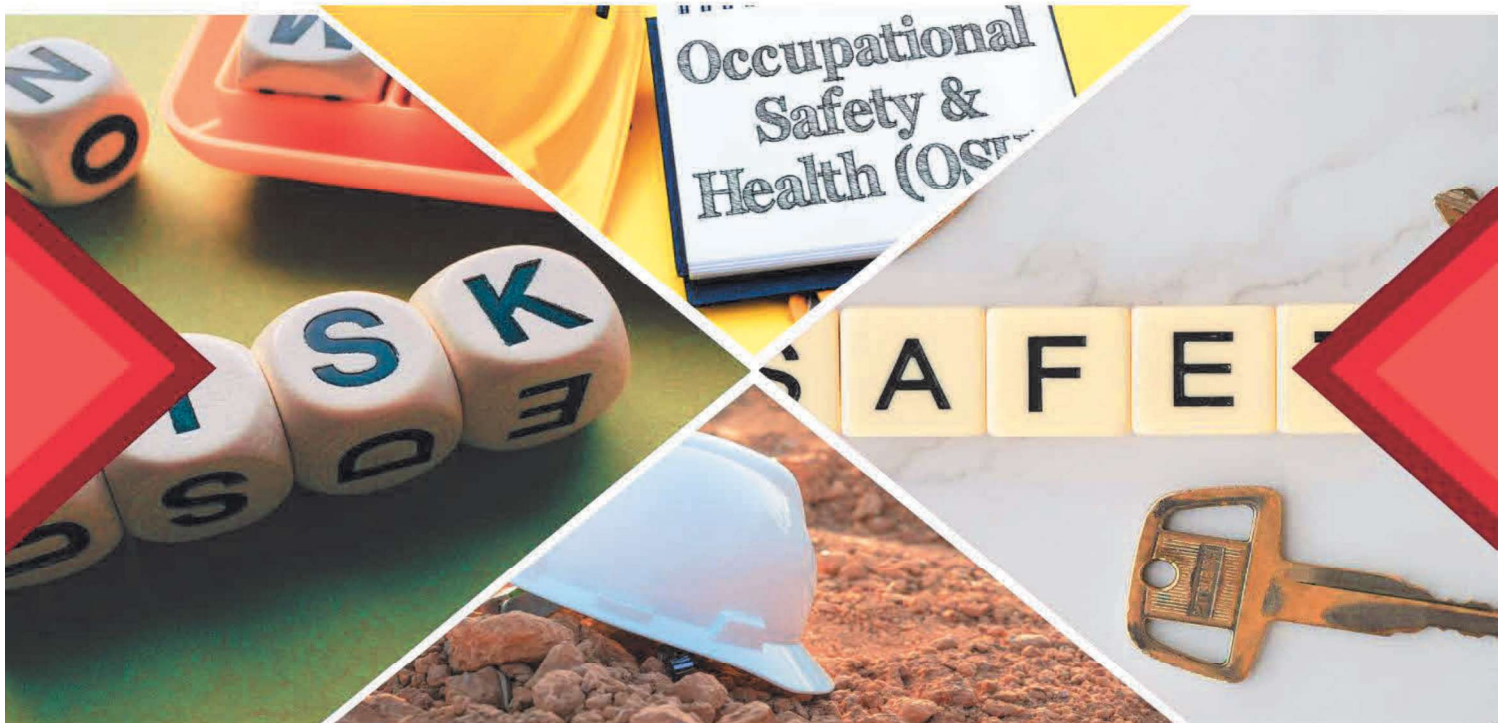
REQUIREMENTS OF MONTHLY SAFETY AND HEALTH REPORT

1. Introductions
2. OSH Programme
3. OSH Statistics and Record
4. OSH Complaints and Notices
5. Status of S-Plan
6. Status of HIRADC
7. Permit To Work (PTW)
8. Employee and Worker's Registrations
9. Registration of Machineries, Equipment and Plants
10. Traffic and Safety Controls
11. Occupational Safety and Health Committee

Whenever there is any dispute arises, item listed as per Prosedur Kawalan Keselamatan dan Kesihatan Pekerjaan JKR.PK(O).04B-3 (Format Laporan Keselamatan Dan Kesihatan Pekerjaan), under the latest version of Sistem Pengurusan Bersepadu (SPB), JKR shall be referred.



BILL OF QUANTITIES FOR OCCUPATIONAL SAFETY AND HEALTH IN CONSTRUCTION WORKS 2025



BILL OF QUANTITIES FOR BUILDING WORK (ABOVE RM 20 MILLION)

Item	Description	Unit	Qty	Rate	Amount
A	<u>PLANNING FOR SAFETY & HEALTH MANAGEMENT SYSTEM</u>				
A1	Prepare and submit Safety and Health Plan (S-Plan) as per JKR Specifications For Occupational Safety And Health In Construction Works 2025 .	LS			.....
A2	Prepare and submit Monthly Safety & Health Report as per JKR Specifications For Occupational Safety And Health In Construction Works 2025 .	LS			.....
B	<u>RESOURCES FOR SITE SAFETY</u>				
B1	Employment of a Safety & Health Officer (SHO) registered with DOSH and to the satisfaction of the S.O/ P.D for the entire contract period to be stationed fulltime at the site.	Man/ Month			.....
B2	Employment of a Site Safety Supervisor (SSS) and to the satisfaction of the S.O/ P.D for the entire duration of the construction period to be stationed fulltime at the site.	Man/ Month			.....
C	<u>PROTECTIVE EQUIPMENT</u>				
C1	Provision and maintenance of Personnel Protective Equipment to S.O/ P.D staffs at site of adequate quantity and of approved quality. The equipment shall include but not be limited to the following: (please refer Appendix 1)				
	▪ Safety boots	No			.....
	▪ Safety helmets	No			.....
	▪ Full Body Harness c/w Hook and Lanyard for workmen who work at heights more than 3m above ground level	No			.....
	▪ Safety / life lines for workmen who work at heights more than 3m above ground level	m			.....
	▪ Protective gloves	No			.....
	▪ Safety goggles	No			.....
	▪ Safety jackets of reflective type	No			.....
	▪ Ear plugs and muffs	No			.....
	▪ Gas mask	No			.....
	▪ Dust masks	No			.....
	▪ Head lamp	No			.....
	▪ Life jacket	No			.....

Item	Description	Unit	Qty	Rate	Amount
	Others as necessary provision and maintenance on the site during the duration of the works, of the adequate safety equipment to be approved by the S.O/P.D as follows: ▪ Gas detectors ▪ Breathing apparatus ▪ Air ventilation pumps ▪ Warning lights ▪ Fire extinguishers ▪ Hazard tape ▪ Safety barriers	No No No No No No No			..... ..... ..... ..... ..... ..... .....
D	<u>SAFE WORKING AREA</u>				
D1	Supply, erection, maintenance and removal of safety barricades/ fencing/ railing/ screen/ wire netting/ toe board (if not included elsewhere in the document) for maintaining safe working environment (please delete where not applicable) during the works.	LS			.....
D2	Cordoning off working area and provision of public control and safety measures where lifting operations, moving, shifting, transferring works and carried out outside the hoarded up area of the worksite as stipulated in JKR Specifications For Occupational Safety And Health In Construction Works 2025 .	LS			.....
D3	Measures to prevent the breeding of mosquitoes, houseflies, rats, insects and other dangerous animals on the Site throughout contract period.	LS			.....
E	<u>TRAFFIC MOVEMENT MANAGEMENT</u>				
E1	Provision and maintenance adequate safety including traffic warning signs and warning lights at place of works and close proximity of public.	LS			.....
E2	Provision and maintenance of traffic control and signage by competent persons including provision of flagmen; where works is in close proximity of public road and reporting to S.O/P.D. (refer Standard Specification For Road Works Section 19 (SPJ Section 19) and Arahan Teknik Jalan 2C/85 or its latest revision)	LS			.....

LIST OF ESTIMATED QUANTITY FOR S.O./P.D PERSONNEL PROTECTIVE EQUIPMENT (PPE)

No.	Items	Cost Of Projects			
		< RM 5 Mil.	RM 5 Mil. - RM 20 Mil.	>RM 20 Mil. - RM 50 Mil.	> RM 50 Mil.
1	Safety boots	5 pairs	10 pairs	15 pairs	20 pairs
2	Safety helmets	5 pcs	10 pcs	15 pcs	20 pcs
3	Full body harness c/w hook and lanyard for workmen who work at heights more than 3m above ground level	If required	If required	If required	If required
4	Safety / life lines for workmen who work at heights more than 3m above ground level	If required	If required	If required	If required
5	Protective gloves	If required	If required	If required	If required
6	Safety goggles	If required	If required	If required	If required
7	Safety jackets of reflective type	If required	If required	If required	If required
8	Ear plugs and muffs	If required	If required	If required	If required
9	Gas masks	If required	If required	If required	If required
10	Dust masks	If required	If required	If required	If required
11	Head lamp	If required	If required	If required	If required
12	Life jacket	If required	If required	If required	If required
13	 (insert other item if required)				

BILL OF QUANTITIES FOR BUILDING WORK (BELOW RM 20 MILLION)

Item	Description	Unit	Qty	Rate	Amount
A	<u>PLANNING FOR SAFETY & HEALTH MANAGEMENT SYSTEM</u>				
A1	Prepare and submit Safety and Health Plan (S-Plan) as per JKR Specifications For Occupational Safety And Health In Construction Works 2025 .	LS			.....
A2	Prepare and submit Monthly Safety & Health Report as per JKR Specifications For Occupational Safety And Health In Construction Works 2025 .	LS			.....
B	<u>RESOURCES FOR SITE SAFETY</u>				
B1	Employment of a Site Safety Supervisor (SSS) and to the satisfaction of the S.O/ P.D for the entire duration of the construction period to be stationed fulltime at the site.	Man/ Month			.....
C	<u>PROTECTIVE EQUIPMENT</u>				
C1	Provision and maintenance of Personnel Protective Equipment to S.O/ P.D staffs at site of adequate quantity and of approved quality. The equipment shall include but not be limited to the following: (please refer Appendix 1)				
	▪ Safety boots	No			.....
	▪ Safety helmets	No			.....
	▪ Full Body Harness c/w Hook and Lanyard for workmen who work at heights more than 3m above ground level	No			.....
	▪ Safety / life lines for workmen who work at heights more than 3m above ground level	m			.....
	▪ Protective gloves	No			.....
	▪ Safety goggles	No			.....
	▪ Safety jackets of reflective type	No			.....
	▪ Ear plugs and muffs	No			.....
	▪ Gas mask	No			.....
	▪ Dust masks	No			.....
	▪ Head lamp	No			.....
	▪ Life jacket	No			.....

Item	Description	Unit	Qty	Rate	Amount
	Others as necessary provision and maintenance on the site during the duration of the works, of the adequate safety equipment to be approved by the S.O/P.D as follows: ▪ Gas detectors ▪ Breathing apparatus ▪ Air ventilation pumps ▪ Warning lights ▪ Fire extinguishers ▪ Hazard tape ▪ Safety barriers	No No No No No No No			..... ..... ..... ..... ..... ..... .....
D	<u>SAFE WORKING AREA</u>				
D1	Supply, erection, maintenance and removal of safety barricades/ fencing/ railing/ screen/ wire netting/ toe board (if not included elsewhere in the document) for maintaining safe working environment (please delete where not applicable) during the works.	LS			.....
D2	Cordoning off working area and provision of public control and safety measures where lifting operations, moving, shifting, transferring works and carried out outside the hoarded up area of the worksite as stipulated in JKR Specifications For Occupational Safety And Health In Construction Works 2025 .	LS			.....
D3	Measures to prevent the breeding of mosquitoes, houseflies, rats, insects and other dangerous animals on the Site throughout contract period.	LS			.....
E	<u>TRAFFIC MOVEMENT MANAGEMENT</u>				
E1	Provision and maintenance adequate safety including traffic warning signs and warning lights at place of works and close proximity of public.	LS			.....
E2	Provision and maintenance of traffic control and signage by competent persons including provision of flagmen; where works is in close proximity of public road and reporting to S.O/P.D. (refer Standard Specification For Road Works Section 19 (SPJ Section 19) and Arahan Teknik Jalan 2C/85 or its latest revision)	LS			.....

LIST OF ESTIMATED QUANTITY FOR S.O./P.D PERSONNEL PROTECTIVE EQUIPMENT (PPE)

No.	Items	Cost Of Projects			
		< RM 5 Mil.	RM 5 Mil. - RM 20 Mil.	>RM 20 Mil. - RM 50 Mil.	> RM 50 Mil.
1	Safety boots	5 pairs	10 pairs	15 pairs	20 pairs
2	Safety helmets	5 pcs	10 pcs	15 pcs	20 pcs
3	Full body harness c/w hook and lanyard for workmen who work at heights more than 3m above ground level	If required	If required	If required	If required
4	Safety / life lines for workmen who work at heights more than 3m above ground level	If required	If required	If required	If required
5	Protective gloves	If required	If required	If required	If required
6	Safety goggles	If required	If required	If required	If required
7	Safety jackets of reflective type	If required	If required	If required	If required
8	Ear plugs and muffs	If required	If required	If required	If required
9	Gas masks	If required	If required	If required	If required
10	Dust masks	If required	If required	If required	If required
11	Head lamp	If required	If required	If required	If required
12	Life jacket	If required	If required	If required	If required
13	 (insert other item if required)				

BILL OF QUANTITIES FOR ROAD WORK (ABOVE RM 20 MILLION)

Item	Description	Unit	Qty	Rate	Amount
A	<u>PLANNING FOR SAFETY & HEALTH MANAGEMENT SYSTEM</u>				
A1	Prepare and submit Safety and Health Plan (S-Plan) as per JKR Specifications For Occupational Safety And Health In Construction Works 2025 .	LS			.....
A2	Prepare and submit Monthly Safety & Health Report as per JKR Specifications For Occupational Safety And Health In Construction Works 2025 .	LS			.....
B	<u>RESOURCES FOR SITE SAFETY</u>				
B1	Employment of a Safety & Health Officer (SHO) registered with DOSH and to the satisfaction of the S.O/ P.D for the entire contract period to be stationed fulltime at the site.	Man/ Month			.....
B2	Employment of a Site Safety Supervisor (SSS) and to the satisfaction of the S.O/ P.D for the entire duration of the construction period to be stationed fulltime at the site.	Man/ Month			.....
C	<u>PROTECTIVE EQUIPMENT</u>				
C1	Provision and maintenance of Personnel Protective Equipment to S.O/ P.D staffs at site of adequate quantity and of approved quality. The equipment shall include but not be limited to the following: (please refer Appendix 1)				
	▪ Safety boots	No			.....
	▪ Safety helmets	No			.....
	▪ Full Body Harness c/w Hook and Lanyard for workmen who work at heights more than 3m above ground level	No			.....
	▪ Safety / life lines for workmen who work at heights more than 3m above ground level	m			.....
	▪ Protective gloves				
	▪ Safety goggles	No			.....
	▪ Safety jackets of reflective type	No			.....
	▪ Ear plugs and muffs	No			.....
	▪ Gas mask	No			.....
	▪ Dust masks	No			.....
	▪ Head lamp	No			.....
	▪ Life jacket	No			.....

Item	Description	Unit	Qty	Rate	Amount
	Others as necessary provision and maintenance on the Site during the duration of the works, of the adequate safety equipment to be approved by the S.O/P.D as follows: ▪ Gas detectors ▪ Breathing apparatus ▪ Air ventilation pumps ▪ Warning lights ▪ Fire extinguishers ▪ Hazard tape ▪ Safety barriers	No No No No No No No			..... ..... ..... ..... ..... ..... .....
D	<u>SAFE WORKING AREA</u>				
D1	Supply, erection, maintenance and removal of safety barricades/ fencing/ railing/ screen/ wire netting/ toe board (if not included elsewhere in the document) for maintaining safe working environment (please delete where not applicable) during the works.	LS			.....
D2	Cordoning off working area and provision of public control and safety measures where lifting operations, moving, shifting, transferring works and carried out outside the hoarded up area of the worksite as stipulated in JKR Specifications For Occupational Safety And Health In Construction Works 2025 .	LS			.....
D3	Measures to prevent the breeding of mosquitoes, houseflies, rats, insects and other dangerous animals on the Site throughout contract period.	LS			.....
E	<u>TRAFFIC MOVEMENT MANAGEMENT</u> (Please delete this item if Traffic Management Plan is already existed in the contract)				.....
E1	Provision and maintenance adequate safety including traffic warning signs and warning lights at place of works and close proximity of public.	LS			.....
E2	Provision and maintenance of traffic control and signage by competent persons including provision of flagmen; where Works is in close proximity of public road and reporting to S.O/P.D. (refer Standard Specification For Road Works Section 19 (SPJ Section 19) and Arahan Teknik Jalan 2C/85 or its latest revision)	LS			

LIST OF ESTIMATED QUANTITY FOR S.O./P.D PERSONNEL PROTECTIVE EQUIPMENT (PPE)

No.	Items	Cost Of Projects			
		< RM 5 Mil.	RM 5 Mil. - RM 20 Mil.	>RM 20 Mil. - RM 50 Mil.	> RM 50 Mil.
1	Safety boots	5 pairs	10 pairs	15 pairs	20 pairs
2	Safety helmets	5 pcs	10 pcs	15 pcs	20 pcs
3	Full body harness c/w hook and lanyard for workmen who work at heights more than 3m above ground level	If required	If required	If required	If required
4	Safety / life lines for workmen who work at heights more than 3m above ground level	If required	If required	If required	If required
5	Protective gloves	If required	If required	If required	If required
6	Safety goggles	If required	If required	If required	If required
7	Safety jackets of reflective type	If required	If required	If required	If required
8	Ear plugs and muffs	If required	If required	If required	If required
9	Gas masks	If required	If required	If required	If required
10	Dust masks	If required	If required	If required	If required
11	Head lamp	If required	If required	If required	If required
12	Life jacket	If required	If required	If required	If required
13	 (insert other item if required)				

BILL OF QUANTITIES FOR ROAD WORK (BELOW RM 20 MILLION)

Item	Description	Unit	Qty	Rate	Amount
A	<u>PLANNING FOR SAFETY & HEALTH MANAGEMENT SYSTEM</u>				
A1	Prepare and submit Safety and Health Plan (S-Plan) as per JKR Specifications For Occupational Safety And Health In Construction Works 2025 .	LS			.....
A2	Prepare and submit Monthly Safety & Health Report as per JKR Specifications For Occupational Safety And Health In Construction Works 2025 .	LS			.....
B	<u>RESOURCES FOR SITE SAFETY</u>				
B1	Employment of a Site Safety Supervisor (SSS) and to the satisfaction of the S.O/ P.D for the entire duration of the construction period to be stationed fulltime at the site.	Man/ Month			.....
C	<u>PROTECTIVE EQUIPMENT</u>				
C1	Provision and maintenance of Personnel Protective Equipment to S.O/ P.D staffs at site of adequate quantity and of approved quality. The equipment shall include but not be limited to the following: (please refer Appendix 1)				
	▪ Safety boots	No			.....
	▪ Safety helmets	No			.....
	▪ Full Body Harness c/w Hook and Lanyard for workmen who work at heights more than 3m above ground level	No			.....
	▪ Safety / life lines for workmen who work at heights more than 3m above ground level	m			.....
	▪ Protective gloves				
	▪ Safety goggles	No			.....
	▪ Safety jackets of reflective type	No			.....
	▪ Ear plugs and muffs	No			.....
	▪ Gas mask	No			.....
	▪ Dust masks	No			.....
	▪ Head lamp	No			.....
	▪ Life jacket	No			.....

Item	Description	Unit	Qty	Rate	Amount
	Others as necessary provision and maintenance on the Site during the duration of the works, of the adequate safety equipment to be approved by the S.O/P.D as follows: ▪ Gas detectors ▪ Breathing apparatus ▪ Air ventilation pumps ▪ Warning lights ▪ Fire extinguishers ▪ Hazard tape ▪ Safety barriers	No No No No No No No			..... ..... ..... ..... ..... ..... .....
D	<u>SAFE WORKING AREA</u>				
D1	Supply, erection, maintenance and removal of safety barricades/ fencing/ railing/ screen/ wire netting/ toe board (if not included elsewhere in the document) for maintaining safe working environment (please delete where not applicable) during the works.	LS			.....
D2	Cordoning off working area and provision of public control and safety measures where lifting operations, moving, shifting, transferring works and carried out outside the hoarded up area of the worksite as stipulated in JKR Specifications For Occupational Safety And Health In Construction Works 2025.	LS			.....
D3	Measures to prevent the breeding of mosquitoes, houseflies, rats, insects and other dangerous animals on the Site throughout contract period.	LS			.....
E	<u>TRAFFIC MOVEMENT MANAGEMENT</u> (Please delete this item if Traffic Management Plan is already existed in the contract)				
E1	Provision and maintenance adequate safety including traffic warning signs and warning lights at place of works and close proximity of public.	LS			.....
E2	Provision and maintenance of traffic control and signage by competent persons including provision of flagmen; where works is in close proximity of public road and reporting to S.O/P.D. (refer Standard Specification For Road Works Section 19 (SPJ Section 19) and Arahan Teknik Jalan 2C/85 or its latest revision)	LS			.....

LIST OF ESTIMATED QUANTITY FOR S.O./P.D PERSONNEL PROTECTIVE EQUIPMENT (PPE)

No.	Items	Cost Of Projects			
		< RM 5 Mil.	RM 5 Mil. - RM 20 Mil.	>RM 20 Mil. - RM 50 Mil.	> RM 50 Mil.
1	Safety boots	5 pairs	10 pairs	15 pairs	20 pairs
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5	Protective gloves	If required	If required	If required	If required
6	Safety goggles	If required	If required	If required	If required
7	Safety jackets of reflective type	If required	If required	If required	If required
8	Ear plugs and muffs	If required	If required	If required	If required
9	Gas masks	If required	If required	If required	If required
10	Dust masks	If required	If required	If required	If required
11	Head lamp	If required	If required	If required	If required
12	Life jacket	If required	If required	If required	If required
13	 (insert other item if required)				