

Part 1 General

ITEM	DESCRIPTION	UNIT	RATES
1.1	Preparation of safety and health plan	LS	
1.2	<p>The Safety and Health Committee</p> <p>Provision for setting up of Site Safety and Health Committee to meet the requirement of OSHA and related regulations for the entire duration of the project</p> <p>a) Conduct monthly Site safety and Health Meetings including keeping of minutes of meetings.</p> <p>b) Conduct at least once in every three months Site Safety and Health inspection including keeping of inspection records.</p>	NO	
1.3	<p>Temporary Works by Designer</p> <p>Provision for the submission of design by competent person/ professional engineer of the followings to DOSH.</p> <p>a) Scaffolding</p> <p>b) Tower crane foundation</p> <p>c) Loading platform</p> <p>d) Catch platform</p> <p>e) Construction rubbish/debris disposal chute</p> <p>f) Runways and ramps</p> <p>g) Passenger hoist</p> <p>h) Gondola</p>	NO	
1.4	<p>Site Safety & Health officer</p> <p>The employment of full time competence Site Safety and Health officer for the entire duration of the construction period to be stationed fulltime at site.</p>	Man-month	
1.5	<p>Site Safety and Health Supervisor</p> <p>The employment of a competent Site Safety and Health Supervisor for the entire duration of the construction period to be stationed full time at site.</p>	Man-month	

Part 1 General (cont'd)

ITEM	DESCRIPTION	UNIT	RATES
<p>1.6</p>	<p>Medical Check Up</p> <p>To conduct health fitness by a Medical Officer at least on yearly basis for activities identified in specification, where in performing may cause a serious bodily injury to him or others or may cause serious damage to machinery or other property.</p> <p>The identified activities:</p> <ul style="list-style-type: none"> a) Tower crane operator b) Confined space c) Tunnelling d) Others (please specify) 	<p>NO</p> <p>NO</p> <p>NO</p>	
<p>1.7</p>	<p>Personal Protective Equipment</p> <p>To provide, maintain and replace any damage; the following personal protective equipment for the duration of the project.</p> <ul style="list-style-type: none"> a) Safety helmet b) Safety shoes/boots c) Others (please specify) 	<p>NO</p> <p>PR</p> <p>NO</p>	
<p>1.8</p>	<p>Safety and Health Training</p> <p>To plan and conduct relevant safety and health training plan as per site requirement</p> <ul style="list-style-type: none"> a) Site health and safety induction courses for site personnel b) Tool box meetings c) Site health and safety induction courses for approved visitors d) Fire fighting e) Emergency preparedness, responds and evacuation 	<p>NO</p> <p>NO</p> <p>NO</p> <p>NO</p> <p>NO</p>	
<p>1.9</p>	<p>Hazards Identification Risk Assessment And Risk Control (HIRARC)</p> <p>To prepare and undertake Hazards Identification, Risk Assessment and Risk (HIRARC) for all construction activities</p>	<p>LS</p>	

Part 1 General (cont'd)

ITEM	DESCRIPTION	UNIT	RATES
1.10	<p>Monthly Report</p> <p>Preparation of monthly report by the Safety and Health Officer summarizing occurrences, accidents and safety performance and table it in meeting with management.</p> <p>The monthly report shall include the following items:</p> <ul style="list-style-type: none"> a) Major / minor accident b) Near miss incident c) Safety audit findings d) Inspections carried out e) Training f) Others g) Recommendation 	LS	
1.11	<p>General Signage</p> <p>Provide, install and maintain the following approved 300mm by 400mm (minimum) safety warning signs but not limited to:</p> <ul style="list-style-type: none"> a) Wear Safety Helmet/ Pakai Topi Keselamatan b) Wear Safety Shoes/Pakai Kasut Keselamatan c) Keep Site Clean/Jaga Kebersihan Tapak d) No Open Burning/Dilarang membakar Sampah e) Emergency exit routes f) Any other safety signs as instructed and approved by the SO 	NO NO NO NO NO NO	
1.12	<p>Site Safety and Health Information Board</p> <p>Provision and maintenance of Health and Safety information board of (min area 2.9 sq m) including regular updating of safety and health information</p>	NO	
1.13	<p>Notification of Accident, Dangerous Occurrence, Occupational Poisoning and Occupational Diseases</p> <p>Provision for Accident/Incident Report and Investigation in Compliance with the Notification of Accidents, Dangerous Occurrence, Occupational Poisoning and Occupational Diseases (NADOOPOD) Regulations 2006.</p>	NO	

Part 1 General (cont'd)

ITEM	DESCRIPTION	UNIT	RATES
1.14	<p>First Aid Facilities</p> <p>a) To provide suitable trained person to attend first-aid treatment.</p> <p>b) To provide and maintain first aid kit</p>	<p>Man-month</p> <p>NO</p>	
1.15	<p>Portable Fire Extinguisher</p> <p>Provision and maintenance of approved fire extinguisher as per authorities requirement at designated area</p>	<p>NO</p>	

Part 2 Amenities and Facilities (Construction Site and Site Accommodation (Rumah Kongs))

ITEM	DESCRIPTION	UNIT	RATES
2.1	<p>Toilets</p> <p>To provide, maintain and dislodging of toilets for workers</p>	NO per month	
2.2	<p>Water Supply</p> <p>Supply of water for washing and drinking to all persons on the construction work as per requirements Regulations Factories and Machinery (Safety, Health And Welfare) 1970.</p>	Per month	
2.3	<p>Temporary rest area</p> <p>To provide and maintain rest area for the workers and site staff as per specification</p>	NO	
2.4	<p>Lighting</p> <p>To provide adequate lighting in dark environment at work areas, access and egress.</p>	NO	
2.5	<p>Ventilation</p> <p>To provide mechanical ventilator in areas where natural ventilation is not possible and in accordance to the specification.</p>	NO	

Part 3 Prevention of fall at Workplace

ITEM	DESCRIPTION	UNIT	RATES
3.1	<p>Unprotected Sides and Edges</p> <p>Supply, install and erect guardrail, barricade and toe board (where required) to exposed edges/ openings but not limited to:</p> <p>a) Building perimeter openings b) Lift shaft openings c) Floor openings d) Working platform e) Loading platform</p>	<p>M M M M NO</p>	
3.2	Provide, install and maintain temporary hand railings to the stairs use as an access and egress.	M	
3.3	Provision of temporary closure by using material of sufficient thickness and strength of floor openings for opening where erecting of guardrail / barricade is not suitable.	M2	
3.4	<p>Safety nets</p> <p>To provide, erect and maintain safety net.</p>	M2	
3.5	<p>Individual fall arrest systems</p> <p>To provide, anchor / install and maintain individual fall arrest systems that includes:</p> <p>a) Inertia reel systems; b) Safety harnesses; c) Lanyards; and d) Static lines.</p>	<p>NO NO NO M</p>	
3.6	<p>Ladders</p> <p>Provision to supply and maintain suitable lockable step ladder spreader bars on both sides connected to the front and rear stiles.</p>	NO	
3.7	<p>Scaffolding for Temporary Working Platform, Access and Egress</p> <p>Erect, maintain and dismantle suitable scaffolding for temporary working platform including access and egress</p>	M2	

Part 3 Prevention of fall at Workplace (cont'd)

ITEM	DESCRIPTION	UNIT	RATES
3.8	<p>Peripheral Net</p> <p>Supply, install and maintain peripheral net</p>	M2	
3.9	<p>Rubbish chute</p> <p>Provision for rubbish / debris disposal chute.</p>	NO Meter	
3.10	<p>Safety signage</p> <p>Provision for the following safety signage but not limited to:</p> <p>a) Beware of falling object</p> <p>b) Use safety harness</p> <p>c) Use safe access and egress</p> <p>d) Beware of openings</p> <p>e) Use rubbish / debris chute</p>	NO NO NO NO NO	

Part 4 Electrical

ITEM	DESCRIPTION	UNIT	RATES
4.1	<p>Reports</p> <p>Submission of regular safety inspection and maintenance reports on electrical distribution box, switch box, temporarily wiring and generator set both indoors and outdoors on weekly basis</p>	NO	
4.2	<p>Electrical Safety Signage</p> <p>Provide, install and maintain the following approved 300mm by 400mm safety warning signs but not limited to</p> <ul style="list-style-type: none"> a) BEWARE ELECTRICITY b) USE ELECTRICITY SAFELY c) USE SAFE ELECTRICAL TOOLS d) BEWARE OF OVERHEAD CABLE e) Others (please specify) 	<p>NO</p> <p>NO</p> <p>NO</p> <p>NO</p> <p>NO</p>	
4.3	<p>Inspection of equipment</p> <p>Inspection of all electrical tools and equipments prior to their first use at site and throughout the duration of the project.</p>	LS	

Part 5 Hazardous Chemicals and Materials

ITEM	DESCRIPTION	UNIT	RATES
5.1	<p>Chemical Health Risk Assessment</p> <p>a) To prepare a Chemical Register for all hazardous chemical to health used in the place of work inclusive of updating for the whole duration of project.</p> <p>b) Provision to carry out Chemical Health Risk Assessment by a registered assessor</p> <p>c) Provision to develop control measures and policies to ensure the hazardous chemical to health are handled and used safely inclusive of updating for the whole duration of project but not limited to:</p> <ul style="list-style-type: none"> i. Handling ii. Correct and safe storage iii. Transportation procedure iv. Disposal procedure include schedule waste 	<p>Per. Submission</p> <p>Per. Assessment</p> <p>Per. Submission</p>	
5.2	<p>Labelling and Storage</p> <p>Provision of labelling, control and safe storage area for hazardous material at site to the requirement of the authority.</p>	M2	
5.3	<p>Personal Protective Equipment</p> <p>Provision of the following to be used by the worker and personnel working with hazardous chemical but not limited to:</p> <ul style="list-style-type: none"> i. goggles ii. mask iii. gloves iv. suitable full face mask (where necessary) v. protective clothing (where necessary) 	<p>NO</p> <p>NO</p> <p>PR</p> <p>NO</p> <p>NO</p>	
5.4	<p>Waste Disposal</p> <p>Handle, transport and disposal of Schedule Waste by licensed/ approved contractor to the requirement of the authority.</p>	Tonne	

Part 5 Hazardous Chemicals and Materials (cont'd)

ITEM	DESCRIPTION	UNIT	RATES
<p>5.5</p>	<p>Chemical Safety Signage</p> <p>Provide, install and maintain the following approved 300mm by 400mm safety warning signs but not limited to:</p> <ul style="list-style-type: none"> a) USE SUITABLE FACE MASK b) USE SUITABLE GLOVES c) WARE SUITABLE CLOTHINGS d) BEWARE OF HADZADOUS MATERIAL e) USE SUITABLE GOGGLES <p>Any other warning signs related to chemical safety.</p>	<p>NO</p> <p>NO</p> <p>NO</p> <p>NO</p> <p>NO</p> <p>NO</p>	
<p>5.6</p>	<p>When recommended as per the CHRA, the contractor shall provide the following:</p> <ul style="list-style-type: none"> a. Training b. Monitoring of exposure c. Health surveillance 	<p>NO</p> <p>LS</p> <p>Per person</p>	

Part 6 Plants

ITEM	DESCRIPTION	UNIT	RATES
6.1	<p>To compile and maintain on monthly basis all the inspection records for plants but not limited to:</p> <ul style="list-style-type: none"> a) Tower crane and rigging equipment b) Mobile/crawler crane and rigging equipment c) Material hoist d) Passenger hoist e) Power operated elevating work platform f) Bar bending and cutting machines g) Prime movers h) Mechanical cutting operations i) Gondola or suspended platform j) Portable mechanical powered fastening tools k) Scaffold l) Compressor and pressure vessel m) Dozer, motor grader, etc. 	<p>NO NO NO NO NO NO NO NO NO NO NO NO NO NO NO</p>	
6.2	<p>Provision of designated person</p> <ul style="list-style-type: none"> a) Slings b) Signalman 	<p>Man month Man month</p>	
6.3	<p>Provision of radio communication set for signalman and crane operator during lifting operation</p> <p>(1 set consist of 3 units)</p>	<p>Set /month</p>	
6.4	<p>Arrange for the DOSH inspection and approval of special plants, tools and before use at site which include:</p> <ul style="list-style-type: none"> a) Air compressor b) Tower crane c) Mobile crane d) Material Hoist e) Passenger Hoist f) Any others 	<p>NO NO NO NO NO NO</p>	

Part 7 Special Work Situations

ITEM	DESCRIPTION	UNIT	RATES
7.1	<p>Working in confined space</p> <p>a) Carry out air testing for toxic, flammable gas and fumes and oxygen adequacy before access to the confined area of work by authorized gas tester</p> <p>b) Provision of:</p> <ul style="list-style-type: none"> i. entry supervisor ii. standby person <p>c) Provision of ventilator system to regulate and ensure sufficient air flow to the confined work area</p> <p>d) Develop permit system and procedure for entering confined spaces for the duration of the project.</p> <p>e) Provide, install and maintain the following approved 300mm by 400mm safety warning signs but not limited to:</p> <ul style="list-style-type: none"> i. CONFINED SPACE AREA OBTAIN PERMIT ii. USE SUITABLE PPE iii. Any other warning signs. 	<p>Per test</p> <p>Man day Man day</p> <p>NO</p> <p>LS</p> <p>NO NO NO</p>	
7.2	<p>Traffic movement within site</p> <p>a) Provision for planning of safe traffic movement within the site.</p> <p>b) Provision of flagman to control and regulate the movement of site traffic /vehicle within, going out and coming into the site.</p> <p>c) Provision of the following to be used by the worker and flagman but not limited to:</p> <ul style="list-style-type: none"> i. Reflective safety vest ii. Dust mask iii. Traffic control baton light iv. Flags (Both Green and Red flags) v. Any other suitable PPE 	<p>LS</p> <p>Man day</p> <p>NO NO Set NO</p>	

Part 7 Special Work Situations (cont'd)

ITEM	DESCRIPTION	UNIT	RATES
	d) Provide, install and maintain the following approved 300mm by 400mm safety warning signs but not limited to: <ul style="list-style-type: none"> i. HAD LAJU 15 km/j ii. KURANGKAN LAJU iii. JALAN MASUK iv. JALAN KELUAR v. AWAS KENDERAAN KELUAR MASUK vi. Any other warning signs 	NO NO NO NO NO NO	
7.3	Excavations (more than 1.5 m deep) <ul style="list-style-type: none"> a) Provision for the designing of safe strutting for deep excavation work by professional. b) Provision for the competent/ designated person to supervise the excavation work. c) Provision for protecting and barricading the excavated work. d) Provide, install and maintain an approved hazard warning lights for the excavated area during the night. e) Provide, install and maintain the following approved 300mm by 400mm safety warning signs but not limited to: <ul style="list-style-type: none"> i. AWAS KAWASAN BAHAYA ii. Any other warning signs 	NO Man day M NO NO NO	

Part 7 Special Work Situations (cont'd)

ITEM	DESCRIPTION	UNIT	RATES
7.4	General Demolition Works		
	a) Provision of planning for safe demolition work, stage by stage, including the safety of adjoining structure for the approval of the local authority.	NO	
	b) Provision of inspection and supervision of demolition work by competent person	Man day	
	c) Provision of adequate notice before demolition work as required by the local authority.	NO	
	d) Provision for the suppression of dust to the approval limit of the local authority.	Lump sum	
	e) Provide, install and maintain the following approved 300mm by 400mm safety warning signs but not limited to:		
	i. AWAS KAWASAN BAHAYA	NO	
	ii. DILARANG MASUK	NO	
	iii. AWAS KERJA MEROBOH	NO	
	iv. Any other warning signs	NO	
	General Demolition Works (Cont'd)		
	f) Provision of approved netting for prevention of uncontrolled fall of demolishing material.		
	g) Provide, install and maintain approved barricade / fencing for prevention of unauthorized entry for the whole duration of demolishing work.		
	h) Provision of security personnel at strategic locations during the demolishing operation		
i) Provision of noise monitoring and testing			

Part 7 Special Work Situations (cont'd)

ITEM	DESCRIPTION	UNIT	RATES
7.5	j) Provision of the following personal protective equipment (PPE) to be used by the worker for demolition works, but are not limited to:		
	i. Goggle	NO	
	ii. Dust mask	NO	
	iii. Ear protection	PR	
	iv. Gloves	PR	
	v. Any other PPE	NO	
	Blasting work		
	a) Provision of planning for safe blasting work including the safety of public & adjoining structure	NO	
	b) Provision of inspection and supervision of blasting work by designated person	Man day	
	c) Provision of adequate notice before blasting work as required by the authority	NO	
	d) Provision for the suppression of dust to the approval limit of the authority	LS	
	e) Provide, install and maintain the following approved 300mm by 400mm safety warning signs but not limited to:		
	i. AWAS KAWASAN BAHAYA	NO	
	ii. DILARANG MASUK	NO	
	iii. AWAS KERJA LETUPAN SEDANG DIJALANKAN	NO	
iv. Others (please specify)	NO		
Blasting work (Cont'd)			
f) Provision for sounding warning siren before blasting works begins	Per blast		
g) Provide, install and maintain approved barricade/fencing for prevention of unauthorized entry of blasting site for the whole duration work	Meter/ month		
h) Provision of security personnel at strategic locations during the blasting operation	Man day		

