

PART A1 – PRELIMINARIES AND GENERAL CONDITIONS

ITEM	DESCRIPTION	AMOUNT (RM)
	<p>General Information</p> <p>Notes:</p> <p>A The items as set out in the B.Q. shall apply to the whole of the Works contained in the Contract and the Contractor shall allow for compliance with the same and for any cost incurred in connection therewith.</p> <p>B The amounts inserted by the Contractor for such items shall be deemed to apply to the whole of the Works carried out under this Contract.</p> <p>C Each item shall be individually priced. Bulk pricing for sections, trades, groups or pages of items shall not be allowed and no subsequent claims for loss or expense and/or profit shall be entertained for failure to comply with this clause.</p> <p>D Where any item is left unpriced, it shall be deemed that the cost of such item has been allowed for elsewhere within this document. No subsequent claims arising out of expense and/or loss incurred against such unpriced item shall be entertained.</p> <p>E Notwithstanding the above clauses, the S.O. reserves the right to request from the Contractor the detailed breakdown of the pricing for items or rates in the B.Q. for his perusal. The detailed breakdown pricing may be used as a basis for the administration of the Contract</p> <p>F Headings are not comprehensive and do not necessarily reflect or modify the meaning of the items in the B.Q.</p> <p>G Where any priced item in the B.Q. has not been executed on site by the Contractor, the cost of such priced item shall accordingly be deducted from the Contract Sum.</p> <p>H All items priced shall be deemed to include compliance with the provisions of the contract, statutes, regulation, by-laws or any order or directive issued by public authority or public service company and other related legislation currently in force.</p> <p>J Quantities in the Bills of Quantities are measured in accordance with the Malaysian Standard Method of Measurement of Building Works (2nd Edition Metric 2000). Where departure have been made from the standards mentioned, the method adopted in the Bills shall be adhered to for the purposes of ascertaining the value of all variations and measurements.</p>	
	<p>TO COLLECTION :</p>	

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ITEM	DESCRIPTION	AMOUNT (RM)
<p>A</p>	<p>Definitions</p> <p>Abbreviations</p> <p>The following abbreviations or symbols are generally used in the Contract Document and shall be read as follows :</p> <p>a) mm : millimetre b) m : metre c) m² : square metre d) m³ : cubic metre e) kg : kilogramme f) tonne : metric ton g) No. : Number h) L.S. : Lump Sum i) P.C. Sum : Prime Cost Sum j) P.S. : Provisional Sum k) RM : Ringgit Malaysia</p> <p>B</p> <p>Scope of Works</p> <p>The works included under this Contract comprises :</p> <p>a) Building Works i) ii) ii)</p> <p>b) External Works i) ii) ii)</p> <p>c) P.C. Sum and P.S.</p> <p>d) All Ancillary Works</p> <p>C</p> <p>Location of Site</p> <p>The site for the proposed Works is located at as shown on Drawing No.....</p>	
	<p>TO COLLECTION :</p>	

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ITEM	DESCRIPTION	AMOUNT (RM)
A	<p>Project Signboard</p> <p>The Contractor shall provide, erect, and maintain a project signboard as specified.</p>	
B	<p>Site Survey and Setting Out</p> <p>The Contractor shall employ a licensed surveyor to carry out site surveys before commencement and setting out of the Works.</p>	
C	<p>Temporary Diversion And Relocation Of Existing Overhead And Underground Services</p> <p>The Contractor shall enquire from the various authorities and make arrangements for the disconnection, removal, relocation and reconnection of services and pay all necessary cost and fees in connection therewith and make good all damage as specified.</p>	
D	<p>Adjoining Property</p> <p>The Contractor shall arrange and carry out the Works so as to cause minimum interference or interruption to the use of adjoining properties including roads, footpaths, other access and any existing services as specified.</p>	
E	<p>Construction Plan</p> <p>The Contractor shall submit to the S.O. for his approval the following as specified :</p> <ul style="list-style-type: none"> a) Programme of Works b) Method statements c) Contractor's organisation chart d) Schedules e) Quality Assurance Plan for Works Contract worth RM10 Million and above <ul style="list-style-type: none"> i) Provide a quality Assurance Team full time on Site for the institution, administration and maintenance of the Quality Assurance Plan and the preparation and submission of all Quality Assurance Reports as specified, throughout the duration of the contract. ii) The Contractor shall appoint a suitably qualified and experienced person to act solely as a Quality Assurance Officer full time on site to lead Quality Assurance Team. (Refer Addendum to specification for project worth RM 10 Million and above). 	
	TO COLLECTION :	

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ITEM	DESCRIPTION	AMOUNT (RM)
	<p>Contractor's Plant</p> <p>A The Contractor shall provide, erect, keep insured, maintain and remove on completion all requisite scaffolding, hoist, crane, ladder, staging, tarpaulins, et cetera (excluding piling and pile testing equipment), as necessary for the execution of the Works.</p> <p>Temporary Water And Power Supplies For The Works</p> <p>B The Contractor shall provide adequate power and water supplies for the execution of the works including paying all associated costs and fees as specified.</p> <p>Site Security</p> <p>C The Contractor shall provide all necessary personnel and lighting for the security of the site at all times until completion of the whole Works as specified.</p> <p>Temporary Access And Maintenance Of Existing Roads</p> <p>D The Contractor shall provide and maintain all necessary temporary roads, culverts, tracks, bridges, et cetera for access to and within the Site as specified.</p> <p>E The Contractor shall maintain all access including existing roads, bridges, drains, culverts, roadside furniture, and all other appurtenances and services on such roads throughout the construction period. The Contractor shall make good any above mentioned item damaged by any work carried out by him.</p> <p>Control Of Workmen, Plant And Machinery At Site</p> <p>F The Contractor shall be responsible for controlling all persons under his employment and those employed by his sub-contractors, merchants and haulers at the work site and shall take all necessary precautions to prevent damage and nuisance of any kind and shall indemnify the Government against any claim arising therefrom.</p> <p>G The Contractor shall ensure the safety, health and welfare at work of all his workmen as specified.</p> <p>Contractor's Temporary Accommodation And Facilities For Workmen Living On Site</p> <p>H The Contractor shall provide and maintain all temporary accommodation and facilities including temporary lighting, plumbing, water storage, sanitary and sewerage for his labour and staff living on Site as specified.</p>	
	<p>TO COLLECTION :</p>	

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ITEM	DESCRIPTION	AMOUNT (RM)
	<p>Contractor's Office And Storage</p>	
A	<p>The Contractor shall provide and maintain Contractor's office and storage on the Site in positions as approved by the S.O. and as specified.</p>	
	<p>Care And Protection Of Materials And Works</p>	
B	<p>The Contractor shall provide and maintain everything necessary for proper protection of materials and Works from any damage by weather, carelessness or otherwise. Any damage caused shall be made good at the Contractor's own cost to the approval of the S.O.</p>	
	<p>Shop Drawings, Samples And Mock-ups</p>	
C	<p>The Contractor shall submit relevant shop drawings, samples of materials or workmanship and mock-ups units as specified for the S.O.'s approval.</p>	
	<p>Progress Photographs</p>	
D	<p>The Contractor shall take progress photographs and submit to the S.O. as specified.</p>	
	<p>Material Testing Laboratory And Staff</p>	
E	<p>The Contractor shall provide a testing laboratory within the site or rent a premise or propose an accredited laboratory approved by SIRIM as specified. The Laboratory shall be equipped with the necessary equipment required to carry out the tests as identified in APPENDIX A/4(List of Laboratory Equipment).</p>	
	<p>Office Accommodation For S.O.</p>	
F	<p>The Contractor shall provide and maintain a site office or relocatable site office or rent a premise for the use of the JKR supervisory staff all in accordance with JKR design type as specified.</p>	
	<p>Telephone For S.O.</p>	
G	<p>The Contractor shall provide a permanent telephone at the S.O.'s site office for the sole use of the S.O. and his representatives as specified.</p>	
	<p>Survey Instruments And Personnel</p>	
H	<p>The Contractor shall provide all such instruments, equipment and survey personnel as specified.</p>	
	<p>TO COLLECTION :</p>	

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ITEM	DESCRIPTION	AMOUNT (RM)
	<p>Site Items For S.O./Office Equipment And Facilities</p> <p>A The Contractor shall provide all Personal Protective Equipment required for the use of the S.O. and his supervisory staff as specified and complying with DOSH requirements.</p> <p>B The Contractor shall provide suitable types of fire extinguishers as specified.</p> <p>C The Contractor shall provide the equipment and facilities as listed as specified in APPENDIX A/2 for the use of the S.O., his representatives and staff.</p> <p>D The Contractor shall provide suitable transportation service by means of vehicle(s) including licensed and competent driver(s) as specified in APPENDIX A/3.</p> <p>Safe Working Area</p> <p>E The Contractor shall supply, erect, maintain and remove on completion of the Works, adequate, protective and security hoarding, scaffolding and working platform with safety nettings and such other safety measures necessary to ensure the safety of the workers, personnel, public and others at or within the vicinity of the Site, all as specified.</p> <p>Safety, Health And Welfare</p> <p>F The Contractor shall ensure the safety, health and welfare at work site as specified including but not limited to :</p> <p>a) Provision of First Aid Kit b) Pest control including keeping the site clean and dry to prevent breeding of mosquitoes, rodents, insects and vermin of any kind. c) Fogging at regular intervals</p> <p>G *The Contractor shall employ a Safety and Health Officer (SHO) registered with DOSH for the entire contract period to be stationed fulltime at the site (for works exceeding RM 20 million contract value.</p> <p><i>* Delete if not applicable</i></p> <p>H The Contractor shall employ a Site Safety Supervisor (SSS) registered with DOSH to be stationed a minimum of 15 hours a week at the site for the entire duration of the construction period.</p> <p>J The Contractor shall submit 5 copies of Safety and Health Plan (S-Plan) as required in APPENDIX A/5 as specified.</p> <p>K The Contractor shall submit 5 copies of monthly Safety and Health Report as required in APPENDIX A/6 as specified.</p> <p>L The Contractor shall provide and maintain adequate traffic safety and control including signages, warning lights and flagmen as necessary.</p>	
	<p>TO COLLECTION :</p>	

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ITEM	DESCRIPTION	AMOUNT (RM)						
A	<p>Keeping The Site Tidy</p> <p>The Contractor shall make every effort to keep the Site in a reasonably clean and tidy condition for the duration of the Works as specified.</p>							
B	<p>Coordination Of Mechanical And Electrical (M & E) Services</p> <p>The Contractor shall be responsible for coordinating the implementation of all M & E works as specified and appoint M&E Services Coordinator based on project cost as follows :</p> <table border="1" data-bbox="196 593 970 734"> <tr> <td>Project Cost (RM)</td> <td>Minimum Requirement Of M & E Coordinator</td> </tr> <tr> <td>between 10 to 50 million</td> <td>1 Engineer & 1 CoW</td> </tr> <tr> <td>more than 50 million</td> <td>1 Engineer & 2 CoW</td> </tr> </table>	Project Cost (RM)	Minimum Requirement Of M & E Coordinator	between 10 to 50 million	1 Engineer & 1 CoW	more than 50 million	1 Engineer & 2 CoW	
Project Cost (RM)	Minimum Requirement Of M & E Coordinator							
between 10 to 50 million	1 Engineer & 1 CoW							
more than 50 million	1 Engineer & 2 CoW							
C	<p>As-Built Drawings</p> <p>The Contractor shall provide four (4) sets of the approved As-built drawings after completion of each section of the Works in the form as specified.</p>							
D	<p>Clearing, Cleaning And Making Good On Completion</p> <p>The Contractor shall clear and clean the Works including existing roads, drains bounding the Site of any debris, earth, et cetera, and make good all damages upon completion as specified.</p>							
E	<p>Legislation, Regulations And By-laws</p> <p>The Contractor shall at all times comply with the provisions of all legislation, regulations and by-laws currently in force as specified and as listed in APPENDIX A/1.</p>							
F	<p>Form of Contract</p> <p>The Contractor shall refer to the Standard Form of Contract for further information. The Contractor may price here for all the expenses involved in complying with the terms of these Clauses, otherwise such expenses are deemed to be included elsewhere.</p>							
F	<p>Clause No. 13</p> <p>Performance Bond</p> <p>For due observance and performance of this contract the Contractor shall have to provide:</p> <p>Performance Bond in the form of an approved Bank or Insurance Guarantee equal to five percent (5%) of the contract sum to be deposited with the Government as a condition precedent to the commencement of any work under this contract.</p>							
	TO COLLECTION :							

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ITEM	DESCRIPTION	AMOUNT (RM)
	Form of Contract (Cont'd)	
A	<u>Clause No.15</u> Insurance Against Personal Injuries And Damage To Property	
B	<u>Clause No.16</u> Indemnities to Government in Respect of Claim by Workmen	
C	<u>Clause No.17</u> Employees' Social Security Act, 1969	
D	<u>Clause No.18</u> Insurance of Works.	
E	<u>Clause No.22</u> Design, Sub-clause No. 22.2 - Design Guarantee Bond	
F	<u>Clause No.35</u> Materials, Goods And Workmanship	
G	<u>Clause No.36</u> Inspection and testing of materials, goods and equipment	
H	<u>Clause No. 59 - Site Agent And Assistants</u> The Contractor shall keep constantly on the Site for the full duration of the Contract a competent, efficient, suitably qualified, experienced and good character Site Agent and his assistants in each trade as may be necessary, who must be capable of receiving instructions in Bahasa Malaysia, and in default it shall be the responsibility of the Contractor to provide replacement for them and all wages and other expenses in connection with the employment of such replacement site agent and assistants. Any directions, explanations or instructions given to such site agent by the S.O. shall be deemed to have been given to the Contractor under this contract. provide all necessary superintending order	
		TO COLLECTION :

LEGISLATION AND REGULATIONS

1. BS 5228: Code of Practice for Noise control on Construction and Demolition Site
2. Construction Industry Development Board Act, 1994
3. Electricity Regulations, 1994
4. Electricity Supply Act, 1990
5. Environmental Quality Act (EQA), 1974
6. Explosives Act, 1957
7. Factory and Machinery Act (FMA), 1967 Rev 2006 and Regulations under the Act.
8. Federal Territory (Planning) Act 1982 (Act 267)
9. Fire Services Act, 1988
10. Forestry Act 1984 (Act 313)
11. Guidelines For Hazard Identification, Risk Assessment And Risk Control, 2008, DOSH
12. Guidelines for Public Safety and Health at Construction Sites, 2007, DOSH
13. Guidelines for the Prevention of Falls at Workplaces, 2007, DOSH
14. Guidelines On Occupational Safety And Health In Tunnel Construction, 1998, DOSH
15. Guidelines on Occupational Vibration, 2003, DOSH
16. Industry Code of Practice for Safe Working in A Confined Space, 2010, DOSH
17. Irrigation Areas Act, 1953
18. Land Conservation Act 1960 (Act 385)
19. Local Government Act, 1976
20. MS 2318: Code of Practice for Demolition of Buildings, 2010
21. National Land Code (Act 56 of 1965)
22. Occupational Safety and Health Act (OSHA), 1994 and Regulations under the Act.
23. Protection of Wildlife Act, 1972 (Act 76)
24. Solid Waste and Public Cleansing Management Act 2007 (Act 672)
25. Standard OHSAS 18001
26. Street, Drainage and Building Act, 1974
27. Street, Drainage and Building Act, 1974: Act 133 and Amendment, 1978
28. The Radiation Protection (Basic Safety Standards) Regulations 1987
29. Town and Country Planning Act 1976, (Act 172)
30. Uniform Building By-Law (UBBL), 1984
31. Workers Minimum Amenities Act 1990 (Act 446)

LIST OF ESTIMATED QUANTITY FOR S.O'S PERSONAL PROTECTIVE EQUIPMENT (PPE)

No.	Items	Cost of Projects			
		< RM 5 Mil	RM 5 Mil - RM 20 Mil	> RM 20 mil. – RM50 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 (for working at height) If required	If required	If required	If required	If required
4.	Protective gloves	If required	If required	If required	If required
5.	Safety Goggles	If required	If required	If required	If required
6.	Safety Jackets of reflective type	If required	If required	If required	If required
7.	Ear plugs and muffs	If required	If required	If required	If required
8.	Dust masks	If required	If required	If required	If required
9.	Head lamp	If required	If required	If required	If required
10. (insert other item if required)				

* The Contractor shall provide necessary space/ furniture for storage

LIST OF S.O.'S FACILITIES AND EQUIPMENT

A1/11

LIST OF S.O.'S TRANSPORT SERVICES

A1/12

LIST OF LABORATORY EQUIPMENT

A1/13

REQUIREMENTS OF SAFETY AND HEALTH PLAN (S-PLAN)

1. Project Introduction and Scope of Works associated with OSH;
2. Contractor's Authorised and Updated OSH Policy;
3. Contractor's Organisation Chart and Safety And Health Committee (SHC) Chart which shall describing the staff involved including list of duties and responsibilities;
4. Communication, Consultation and Involvement of each member of the Contractor's project team as shown in the Item (c), including their relationship, interfacing and cooperation of workmen for successful implementation of the project. The planning shall taking account control of any OSH related complaints, advice, OSH programmes and awareness, SHC meeting's schedule, and solving OSH related issues;
5. Contractor's Authorised Updated Compliance List on OSH Legislation and Other Related Requirements;
6. List of Prohibited foods and drinks including drugs and medicines;
7. List of Personal Protective Equipment at Works;
8. Schedule of OSH Trainings and Programmes to all workmen including sub-Contractor;
9. Emergency Response Plan;
10. Safe Work System on Temporary Electricity Installation Works;
11. Safe Operational Procedures;
12. Format of Incident investigation report;
13. Format of Daily Reporting on Incident Statistic;
14. Chemical Safety Data Sheets or Material Safety Data Sheets;
15. Health Precaution on workmen: Medical Report (Health Surveillance), noise prevention;
16. Sanitation for workmen;
17. Safety Signage and Traffic Control;
18. Hazard Identification, Risk Assessment and Risk Control (HIRARC);

REQUIREMENTS OF SAFETY AND HEALTH REPORT

1. Related OSH programme;
2. Incident statistic from daily notification of any accidents, near misses, lost time injuries, death and ill-health with actions taken; in accordance with OSH (Notification of Accident, Dangerous Occurrence, Occupational Poisoning and Occupational Disease) Regulations 2004. The Contractor shall be held solely responsible for all incidents arising from any negligence in this respect;
3. Related OSH issues on complaints, Non-compliance, damages and actions taken;
4. Status on S-Plan and HIRARC;
5. List of workmen permit, CIDB Green Card, tools and machineries;
6. Traffic and other related safety control.

TABLE A2 : ENVIRONMENTAL QUALITY STANDARDS TO BE COMPLIED WITH BY THE CONTRACTOR

Aspects	Parameter	JKR EMS Set Target	Environment Quality (Sewage) Regulations, 2009		National Water Quality Standards (NWQS)	
			Standard A	Standard B	Class IIA	Class IIB
Soil	Soil loss	Minimum earthwork Phase construction ≤ 6 berms/benches for slopes (≤ 6m per berm) Reuse topsoil				
Water ^{1,2}	Turbidity	≤ 200 NTU	-	-	≤ 50 NTU	
	Suspended Solid	≤ 100 mg/l	≤ 50 mg/l	≤ 100 mg/l	≤ 50 mg/l	
	Biochemical Oxygen Demand ₅ @ 20°C (BOD) ₅	≤ 50 mg/l	≤ 20 mg/l	≤ 50 mg/l	≤ 3 mg/l	
	Chemical Oxygen Demand (COD)	≤ 100 mg/l	≤ 120 mg/l	≤ 200 mg/l	≤ 25 mg/l	
	pH	5.5 – 9	6 – 9	5.5 – 9	6-9	
	E-Coli	≤ 400 counts / 100 ml	-	-	≤100 counts/ 100ml	≤400 counts / 100 ml
	Dissolved Oxygen(DO)	≥ 4 mg/l	-	-	5-7 mg/l	
	Oil and Grease	≤ 10 mg/l	≤ 5 mg/l	≤ 10mg/l	≤ 40 µg /l, N	
	Ammoniacal Nitrogen (river)	-	≤ 10 mg/l	≤ 20mg/l	≤ 0.3 mg /l	
Air ³	Total Suspended Particulate (TSP) (24hr) Particulate Matter (PM10) (24hr)		≤260 µg/m ³ /day ≤150 µg/m ³ /day			
Noise ⁴	Equivalent Noise Level (L _{eq}), L ₁₀ , L ₉₀	Receiving Land Use (residential)				
		Day time (7.00 am – 7.00 pm) L ₉₀ ≤ 60 dBA; L ₁₀ ≤75 dBA; L _{max} ≤ 90 dBA;				
		Evening (7.00 pm – 10.00 pm) L ₉₀ ≤55 dBA; L ₁₀ ≤70 dBA; L _{max} ≤ 85 dBA;				
		Night time (10.00 pm – 7.00 am) Noise Sensitive Areas : L _{Aeq} ≤40 dBA				
		Suburban Areas : L _{Aeq} ≤ 45 dBA Urban Areas : L _{Aeq} ≤ 50 dBA				
Vibration ⁵	Vertical Vibration Peak Velocity (mm/s)		Not more than 3 mm/s at receiver location or across real property boundary.			

Reference:

- 1) 2nd Schedule (Regulation 7), Environmental Quality (Sewage) Regulations 2009, Environmental Quality Act 1974.
 - (i) Standard A: For location with downstream water intake
 - (ii) Standard B: For location with no downstream water intake
 - 2) National Water Quality Standards for Malaysia
 - (i) Class IIA: Water Supply II – conventional treatment required
 - a) Fishery II – sensitive aquatic species
 - (ii) Class IIB: Recreational use with body contact
 - 3) Recommended Malaysian Guidelines on Ambient Air Quality
 - 4) Schedule 1 & Schedule 6, Planning Guidelines for Environmental Noise Limits & Control, (DOE, 2004)
 - 5) Planning Guidelines for Vibration Limits and Control of the Environment (DOE, 2004)
- Note: N - No visible floatable materials or debris or no objectionable odour, or no objectionable taste