

JABATAN KERJA RAYA MALAYSIA

**PROJEK PEMBAIKAN CERUN DAN KERJA-KERJA BERKAITAN DI SEKOLAH
MENENGAH KEBANGSAAN BUKIT GAMBIR, PULAU PINANG**

SENARAI KUANTITI

Kami seperti nama syarikat di bawah mengesahkan tawaran harga yang tersenarai di dalam senarai kuantiti ini adalah sama sepertimana di dalam Borang Tender yang dihasilkan di dalam sistem dan sebarang percanggahan akan menyebabkan tawaran kami ditolak.

- A. Nama Syarikat: **Nama Petender**
- B. CIDB/UPKJ/PUKONSA No.: **No.Pendaftaran Petender**
- C. Harga Tawaran: **Harga Tawaran Petender**
- D. No. Siri Tender: **JKR/PERS/CKC/019/2024**
- E. Tarikh Cipta Senarai Kuantiti: **29/11/2024**

Senarai kuantiti ini dikeluarkan oleh BUB CERUN. Sebarang pertanyaan boleh berhubung dengan pegawai yang menyediakan tender dan maklumat pegawai untuk dihubungi boleh didapati di laman iklan.

JABATAN KERJA RAYA MALAYSIA

PROJEK PEMBAIKAN CERUN DAN KERJA- KERJA BERKAITAN DI SEKOLAH MENENGAH KEBANGSAAN BUKIT GAMBIR, PULAU PINANG

SENARAI KUANTITI

No. Tender: JKR/PERS/CKC/019/2024

RINGKASAN TENDER

**PROJEK PEMBAIKAN CERUN DAN KERJA-KERJA BERKAITAN DI SEKOLAH MENENGAH
KEBANGSAAN BUKIT GAMBIR, PULAU PINANG**

ITEM	DESCRIPTION	PAGE NO.	AMOUNT(RM)
1	PRELIMINARIES	BQ 1 - 11/26	
2	SLOPE REMEDIAL WORKS (ALL PROVISIONAL)	BQ 2 - 16/26	
3	DRAINAGE WORKS (ALL PROVISIONAL)	BQ 3 - 19/26	
4	PROVISIONAL SUM	BQ 4 - 20/26	
Sila pilih:			-

**PROJEK PEMBAIKAN CERUN DAN KERJA-KERJA BERKAITAN DI SEKOLAH MENENGAH
KEBANGSAAN BUKIT GAMBIR, PULAU PINANG**

BILL NO. 1 - PRELIMINARIES

ITEM	DESCRIPTION	AMOUNT (RM)
	PART I - GENERAL INFORMATION TO BILL OF QUANTITIES	
1.0	GENERAL	
1.1	The Works contained in the Contract shall include the provision of all labour, materials, constructional plant, temporary or permanent works as required in the Contract.	
1.2	The Bill of Quantities shall be read in conjunction with the Conditions of Contract, the Specification and the Drawings in the Contract Documents.	
1.3	The items as set out in the Bill of Quantities shall apply to the whole of the Works contained in the Contract and the Main Contractor shall allow for compliance with the same and for any cost incurred in connection therewith.	
1.4	Headings are not comprehensive and do not necessarily reflect or modify the meaning of the items in the B.Q. The exact nature and extent of the work to be carried out shall be ascertained by reference to the Contract as a whole, in particular the Conditions of Contract, the Specification and the Drawings. It shall be read together with the relevant "Method of Payment".	
1.5	The amounts inserted by the Main Contractor for such items shall be deemed to apply to the whole of the Works carried out under this Contract.	
1.6	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.	
1.7	<p>The rates and prices inserted in the Bill of Quantities shall include cost of the works described, all risks, liabilities and obligations set forth or implied in the Contract Document and shall be deemed to include the following, unless expressly stated otherwise:</p> <ul style="list-style-type: none"> (a) the provision of labour and all costs in connection therewith; (b) the supply of materials, goods, equipment and storage thereof including delivery to site and all costs in connection therewith; (c) taking delivery of materials, goods and equipment necessary for the Works and including those supplied by others, loading and unloading, storage and all costs in connection therewith; (d) the usage of plants and machineries and all costs in connection therewith; (e) the fixing, erecting and installing or placing in position of materials, goods and equipment including around obstruction, tolerances, penetration, working space, over-breaks etc. and all costs in connection therewith; (f) the provision of all temporary works and all costs in connection therewith unless separately provided for in the Bill of Quantities; 	
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	<p>(g) the phasing requirements of the Works including the effect on the programming of the Works of all traffic and drainage diversions, special structural requirements, earthwork restrictions, alterations to services and street lighting (executed under the Contract or in conjunction with it) and all other requirements of the Contract and all costs in connection therewith;</p> <p>(h) all cost of testing to show proof of compliance with the Specification on materials and workmanship inclusive of samples of materials and submission of tests results. Should the frequency of testing and sampling not specified, then it shall be in accordance with the relevant Malaysian/British Standards and Codes of Practice. Where there is no such relevant Standards and Codes of Practice for reference, it shall then be as instructed by the S.O.;</p> <p>(i) all royalties and dues which the Main Contractor may be required to pay;</p> <p>(j) wastage;</p> <p>(k) establishment charges, overheads and profit;</p> <p>(l) whatsoever method of construction the Main Contractor may adopt.</p>	
1.8	Where any priced item in the B.Q. but has not been executed on site by the Main Contractor, the cost of such priced item shall accordingly be deducted from the Contract Sum.	
1.9	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.	
1.10	Notwithstanding the above clauses, the S.O. reserves the right to request from the Main 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	
2.0	MEASUREMENT	
2.1	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	
2.2	All quantities are provisional unless otherwise stated and subject to remeasurement during construction.	
3.0	UNPRICED ITEMS	
3.1	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.	
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4.0	GENERAL ATTENDANCE FOR NOMINATED SUB-Main ContractorS AND NOMINATED	
4.1	<p>Attendance and facilities for Nominated Sub-Main Contractors and nominated suppliers shall</p> <p>(a) in the case of works or services executed : for allowing the use of existing working space, access, temporary roads, erected scaffolding, sanitary, welfare and other facilities existing on Site and the provision of protection, water, electricity for lighting and clearing away rubbish and debris arising from the work;</p> <p>(b) in the case of goods, materials or services supplied: for taking delivery, unloading, storing, protection and returning crates, cartons and packing materials,</p> <p>all as specified in the specification</p>	
5.0	PHASING SEQUENCE OF OPERATIONS AND METHODS OF CONSTRUCTION	
5.1	The rates and prices shall, unless otherwise stated, include for the costs of compliance with any restrictions imposed on the programming of the Works by the Government and Local Authorities and other relevant authorities dealing with phasing sequence of operations, method of construction, safety and health and liaison and access.	
6.0	TRIALS, SAMPLES, TESTS AND INSPECTION	
6.1	The rates and prices shall include for a testing laboratory or an accredited laboratory approved by SIRIM, equipment and staff for carrying out the tests, tests and the effects on the progress of the Works for the carrying out of all trials, sampling and tests whether specified in the Contract Document or otherwise in order to ensure compliance with the requirements of the Specification except where separately itemised in the Bill of Quantities.	
7.0	EXISTING SERVICES AND MAINS	
7.1	The Main Contractor shall include in his rates and prices for taking measures to locate the actual position and provide support and full protection of existing services and mains and other equipment and machineries during the progress of the Works. The Main Contractor shall inform the S.O. of all arrangements with all Statutory and Public Utility Authorities.	
8.0	WORK UNDER WATER	
8.1	The rates shall include any costs arising from and in connection with the execution of work under water wherever required unless otherwise stated.	
9.0	PHRASEOLOGY	
9.1	Differences in the method of billing and in phraseology used in various parts of the Bill of Quantities and/or Schedule of Rates shall not be a basis of any claim for an increase in the rates and prices.	
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	<p>10.0 PROVISIONAL SUMS</p> <p>10.1 All provisional sums included in the Bill of Quantities are intended to be approximate indications only of the amounts to be expended in respect of the work described and may be omitted entirely or substantially varied without entitling the Main Contractor to any claim for compensation. No part of the Main Contractor's overhead, expenses or profit should be included in these sums when the bill is priced unless items for profit and attendance are specifically allowed for.</p> <p>11.0 CURRENCY OF PAYMENT</p> <p>11.1 Pricing of the Contract shall be in Malaysian Ringgit (RM) to two decimal places. Payment to the Main Contractor under the Contract shall be in Malaysian Ringgit (RM).</p> <p>12.0 TEMPORARY DIVERSIONS</p> <p>12.1 Work in connection with the temporary diversion and relocation of existing overhead and underground services, whether detailed in the Contract or not shall be covered by the appropriate Lump Sum Items in Bill No. 1 : Preliminaries and General Conditions unless separately measured in other parts of the Bill of Quantities.</p> <p>13.0 ABBREVIATIONS</p> <p>13.1 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>14.0 SCOPE OF WORKS</p> <p>14.1 The works included under this Contract comprises :</p> <p>i) Preliminaries ii) Slope Remedial Work iii) Drainage Work iv) Provisional Sum</p> <p>15.0 LOCATION OF SITE</p> <p>15.1 The site for the proposed Works is located at SMK Bukit Gambir , Pulau Pinang as stipulated further in this scope of works.</p>	
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	<p>PART II - PRICING OF PRELIMINARIES ITEMS</p> <p>Project Signboard</p> <p>A The Main Contractor shall provide, erect, and maintain a project signboards as specified inclusive dismantle and removal off sites.</p> <p>Site Survey and Setting Out</p> <p>B The Main Contractor shall employ a licensed surveyor to carry out site surveys before commencement and setting out of the Works.</p> <p>Temporary Diversion And Relocation Of Existing Overhead And Underground</p> <p>C The Main 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> <p>Construction Planning</p> <p>D The Main Contractor shall submit to the S.O. for an approval of the following as specified :</p> <p>a) Programme of Works as submitted by a well certified planner at every interval occasions</p> <p>b) Method statements as per required by the S.O</p> <p>c) Main Contractor's organisational chart (in accordance to the latest approved</p> <p>d) Scheduling</p> <p>e) Quality Assurance Plan for Works Contract worth RM10 Million and above</p> <p>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.</p> <p>ii) The Main 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).</p> <p>Main Contractor's Plant</p> <p>E The Main Contractor shall provide, erect, keep insured, maintain and remove on completion all requisite scaffolding, hoist, crane, construction plant, ladder, staging, tarpaulins, et cetera (excluding piling, pile testing equipment and specialist equipment), as necessary for the execution of the Works.</p> <p>Temporary Water And Power Supplies For The Works</p> <p>F The Main 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>G The Main Contractor shall provide all necessary personnels and lightings for the security of the site at all times until completion of the whole Works as specified.</p>	
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	<p>Temporary Access, Repair And Maintenance Of Existing Roads, etc.</p> <p>A The Main Contractor shall provide repair works and maintain all necessary temporary roads, drains, culverts, tracks, bridges, improvise existing embankment, concrete aboutment and structures inclusive other brickworks, etc. for access to and fro within the Site as stipulated</p> <p>B The Main Contractor shall maintain to the original quality for existing roads, bridges, drains, culverts, roadside furniture, closed turfings and all other appurtenances and services on such roads throughout the construction period (if any) and shall remedy all damages done by the Main Contractor.</p> <p>C The Main Contractor shall locate the actual position and provide support and full protection of existing services and mains during the progress of the Works. The Main Contractor shall inform the S.O. of all arrangements with the various authorities.</p> <p>Control Of Workmen, Plant And Machinery at Site</p> <p>D The Main Contractor shall ensure the safety, health and welfare at work of all the workmen at work as specified.</p> <p>Main Contractor's Temporary Accommodation And Facilities For Workmen</p> <p>E The Main Contractor shall provide and maintain all temporary accommodation and facilities including temporary lighting, plumbing, water storage, sanitary and sewerage for his labour and staff within / outside sites boundaries as approved by the S.O.</p> <p>Main Contractor's Office And Storage</p> <p>F The Main Contractor shall provide and maintain Main 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> <p>G The Main Contractor shall provide and maintain everything necessary for proper protection of materials and Works from any damage by weather.</p> <p>Shop Drawings, Samples And Mock-ups</p> <p>H The Main 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> <p>I The Main Contractor shall take progress photographs and submit to the S.O. as specified.</p> <p>Material Testing Laboratory And Staff</p> <p>J The Main Contractor shall provide/erect 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 and staff required to carry out the tests as identified in APPENDIX A/4 (List of Laboratory Equipment).</p>	
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	<p>Office Accommodation For S.O.</p> <p>A The Main Contractor shall provide and maintain a site office or relocatable site office or rent a premise for the use of the JKR supervisory staff which shall meet the requirement of the JKR design as specified.</p> <p>Telephone For S.O.</p> <p>B The Main 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> <p>C The Main Contractor shall provide all such instruments, equipment and survey personnel as specified throughout the duration of the original Contract Period until 6 months after the issuance of the Certificate of Practical completion as per SO required.</p> <p>Site Items For S.O./Office Equipment And Facilities</p> <p>D The Main Contractor shall provide all Personal Protective Equipment required for the use of the S.O. and his supervisory staff complete as specified and complying with DOSH requirements.</p> <p>E The Main Contractor shall provide suitable types of fire extinguishers as specified.</p> <p>F The Main Contractor shall provide the following including peripherals and equipment as listed and specified in APPENDIX A/2 for the use of the S.O., his representatives and staffs throughout the duration of the original Contract Period.</p> <p>i. one (1) set of laptop including printer</p> <p>Transport Services For S.O. and His Staff</p> <p>G The Main Contractor shall provide (1 unit) 4WD 2000 cc or below for suitable transport services including a licensed and competent driver, a fleet fuel and a TNG cards for the sole usage of the said Government's representative for as per in APPENDIX A/3 throughout the duration of the original Contract Period and/ or any approve extended period.</p> <p>Safe Working Area</p> <p>H The Main Contractor shall supply, erect, maintain and remove on completion of the Works, scaffolding and working platform with safety nettings, catch platforms, safety barricades, fencing, railing, screen wire netting and toe board, guardrails or board fences and sufficient illuminations, all as specified.</p> <p>I The Main 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>	
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	Safety, Health And Welfare	
	A	The Main Contractor shall ensure the safety, health and welfare at work site as specified
		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.
	B	*The Main 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. * Delete if not applicable
	C	The Main 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.
	D	The Main Contractor shall submit 5 copies of Safety and Health Plan (S-Plan) as required in APPENDIX A/5 as specified.
	E	The Main Contractor shall submit 5 copies of monthly Safety and Health Report as required in APPENDIX A/6 as specified.
	F	The Main Contractor shall provide and maintain adequate traffic safety and control including signages, warning lights and flagmen as necessary.
	Keeping The Site Tidy	
	G	The Main Contractor shall make every effort to keep the Site in a reasonably clean and tidy condition for the duration of the Works as specified.
	Coordination Of Mechanical And Electrical (M & E) Services	
	H	The Main Contractor shall be responsible for coordinating the implementation of all M & E-
	Project Cost (RM)-	Minimum Requirement Of- M & E Coordinator
between 40 to 50 million		1 Engineer & 1 CoW
more than 50 million		1 Engineer & 2 CoW
	As-built Drawings	
	I	The Main 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.
	Clearing, Cleaning And Making Good On Completion	
	J	Before handing over of the works to the S.O., the Main Contractor shall scrub all floors, pavings, staircase, etc and clean out all gutters, gulleys, manholes, sumps and drains. The Main Contractors shall also cut shorts grass within the site, clear all areas from rubbish and debris, and leave every part of the completed works included in this Contract in clean, sound and tidy condition. The Main Contractor shall ensure all affected structures are reinstated to its original condition.
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	<p>Form of Contract</p> <p>A The Main Contractor shall refer to the Standard Form of Contract for further information. The Main 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> <p><u>Clause No. 13</u></p> <p>Performance Bond</p> <p>For due observance and performance of this contract the Main Contractor shall have to</p> <p>B 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> <p><u>Clause No.15</u></p> <p>C Insurance Against Personal Injuries And Damage To Property</p> <p><u>Clause No.16</u></p> <p>D Indemnities to Government in Respect of Claim by Workmen</p> <p><u>Clause No.17</u></p> <p>E Employees' Social Security Act, 1969</p> <p><u>Clause No.18</u></p> <p>F Insurance of Works.</p> <p><u>Clause No.22</u></p> <p>G Design, Sub-clause No. 22.2 – Design Guarantee Bond</p> <p><u>Clause No.35</u></p> <p>H Materials, Goods And Workmanship - Opening up of work for inspection or testing of materials or goods.</p> <p><u>Clause No. 59 - Site Agent And Assistants</u></p> <p>I The Main 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 Main 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 Main Contractor under this contract.</p> <p>Utilities Mapping</p> <p>J Carry out underground utilities detection mapping to determine all underground utilities including cables and pipes.</p> <p>Inspection and testing</p> <p>K All quality control and testing requirement for material/quality including preparation of report, test records complete with colour photograph etc. throughout the contract period.</p>	
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	<p>Temporary Protection Works</p> <p>A Provide temporary silt sump/sediment traps,earth drain etc to contain possible spillage of silt to adjacent site and to maintain during the construction stage.</p> <p>B Provide planking and strutting and shoring or any temporary stability system where necessary to sides of excavation and remove and clear away on completion.</p> <p>C Provide platform for working space, equipment and machineries mobilisation and demobilisation within the vicinity of Government boundary of each Locations.</p> <p>D Supply, lay and maintain Class 'A' plastic sheeting for slope protection during construction works as directed by the S.O.</p> <p>E Protection and controlling of the adjacent property and land belonging to others adjoining to the said Government land. No spill over debris (neither solid nor liquid such as concrete slurry, mud and/ or waste water).</p> <p>Compliances</p> <p>F 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>G All Cutting Works Trees shall be approved by Majlis Bandaraya Pulau Pinang or related authorities and all cost for trees replacemet shall be obliged by Main Contractor in this contract.</p> <p>Demolish Or Dismantle Of Unwanted Structure</p> <p>H Demolish or dismantle of any unwanted structure at sites that shall be removed as a whole by the Main Contractor throughout the Contract as per required or instructed by the S.O to an approved dispose area of the Local Authorities.</p> <p>Any Other Necesessary Items To be Priced</p> <p>I Any other items not been described in this Bill but necessary for the satisfactory completion of the Works; the Main Contractor is obliged to fill in details :</p> <p>i).....</p> <p>ii).....</p> <p>iii).....etc (To be described and priced by the Main Contractor if not included above of any necessary new items discovered by the Main Contractor during the tender stage).</p>	
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**PROJEK PEMBAIKAN CERUN DAN KERJA-KERJA BERKAITAN DI SEKOLAH MENENGAH
KEBANGSAAN BUKIT GAMBIR, PULAU PINANG**

BILL NO. 2 - SLOPE REMEDIAL WORKS (ALL PROVISIONAL)

ITEM NO.	DESCRIPTION OF WORK	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<p><u>GENERAL NOTES :</u></p> <p>The Contractor is advised to visit the site and fully acquaint himself as to the nature, extent and practicability of the site clearance and demolition works.</p> <p>The Contractor must ensure that the termination and/or diversion of all services are carried out prior to executing all kind of site clearing activities inclusive of demolition works.</p> <p>All materials arising out of the demolition works, unless specifically described to the contrary, shall become the property of the Contractor who shall allow credit for the same in this pricing.</p> <p>The prices for all works of demolition works and taking down are to include for all labour, plant and materials and for all temporary staging, screens, etc. and for all temporary works necessary in connection therewith and for carting away all debris off site.</p> <p>Prices for demolition works shall include for making good all work disturbed.</p> <p>No claim for extra costs will be entertained if cutting away and making good is necessitated in consequence of the Contractor's negligence.</p> <p>Before commencing any site clearance and demolition works, the Contractor shall ascertain the existence and position of water and other services and inform S.O. if existing services are found on site. The Contractor shall indemnify the Employer and pay all claims for any damages caused to such existing services.</p>				
2.1	SITE CLEARANCE				
2.1.1	Clear and remove off site all landslide debris that have been deemed unsuitable material which may include tree stumps, fallen trees, rock boulders, road debris, existing structures, kerbs, etc.. Work shall also include removal of all obstacles over the areas including felling of trees, existing utilities, unwanted existing structures, drainage etc where necessary including disposal of materials arising from site clearance as specified to the contractor's own tip outside the site as approved by the S.O. The Contractor is prohibited from having open burning on site. Any penalty by the said action shall be borne by the Contractor.	M ²	2,030		
To Collection					

PROJEK PEMBAIKAN CERUN DAN KERJA-KERJA BERKAITAN DI SEKOLAH MENENGAH
KEBANGSAAN BUKIT GAMBIR, PULAU PINANG

BILL NO. 2 - SLOPE REMEDIAL WORKS (ALL PROVISIONAL)

ITEM NO.	DESCRIPTION OF WORK	UNIT	QTY	RATE (RM)	AMOUNT (RM)
2.1.2	Demolition and removal from site of all existing structures				
	i. Existing Toe Drain - Concrete U- Drain	M	220		
	ii. Existing 3 Tier Gabion	M	40		
	iii. Sump	No.	1		
2.2	EARTHWORKS				
2.2.1	Excavation in all material other including rock and trim to required level for the construction including removing material from site. Rate shall including all necessary equipments, plants, tools and ancillaries and transportation to site, handling, assembling, erecting and dismantling and removal from Site upon completion of the Works.	M ³	1,150		
2.3	BACKFILLING WITH COMPACTION				
2.3.1	Supply, lay spread, grade and compact suitable imported material include compaction by layer with maximum thickness of 150mm - 300mm to achieve 95% compaction and additional filling necessitated by settlement or penetration into underlying material as applicable etc as per drawing or directed by S.O.	M ³	2,480		
To Collection					

**PROJEK PEMBAIKAN CERUN DAN KERJA-KERJA BERKAITAN DI SEKOLAH MENENGAH
KEBANGSAAN BUKIT GAMBIR, PULAU PINANG**

BILL NO. 2 - SLOPE REMEDIAL WORKS (ALL PROVISIONAL)

ITEM NO.	DESCRIPTION OF WORK	UNIT	QTY	RATE (RM)	AMOUNT (RM)
2.4	MICROPILE				
2.4.1	Allow for provision of all necessary piling equipment, plant, toll and ancillary equipment including transportation to site, handling, assembling, maintaining, moving within site, providing staging to different platform levels as may be required, as often and whenever necessary for the whole operation including excavations, fillings to make up levels for access of heavy machineries and removal off site after completion of the piling work. Rate shall also including all necessary work to transport heavy machineries to site.	LS			
2.4.2	Allow for provision of all necessary micropile deemed to include drilling of borehole through any strata (rock and soil), six meter permanent steel casing, spacer, steel bars and reinforcement concrete grout of Grade 30, and all other accessories. The rate shall also include cutting of excess bars and wastages of all materials to 200mm diameter pile at 500mm centre to centre horizontally with 3T25 reinforcement bar:- i)18.00m long	No	100		
2.4.3	Reinforced concrete Grade 30 as skin wall comprising of 2 layers BRC of A8 including formwork, reinforcement and all other work.	M ³	30		
2.4.4	Carry out Pile Integrity Test (PIT) inclusive of handling, labour, equipments etc and preparation of report.	No	3		
2.5	CAPPING BEAM				
2.5.1	Reinforced concrete Grade 30 for capping beam on top of micropiles (400mm x 300mm) comprising of T20 and R8 bar reinforcement including formwork all as per shown in the drawing.	M ³	10		
To Collection					

PROJEK PEMBAIKAN CERUN DAN KERJA-KERJA BERKAITAN DI SEKOLAH MENENGAH
KEBANGSAAN BUKIT GAMBIR, PULAU PINANG

BILL NO. 2 - SLOPE REMEDIAL WORKS (ALL PROVISIONAL)

ITEM NO.	DESCRIPTION OF WORK	UNIT	QTY	RATE (RM)	AMOUNT (RM)
2.6	CONCRETE SLAB				
2.6.1	150mm reinforced concrete Grade 30 slab including two layers of BRC A8 and 50mm thick Grade 15 lean concrete. Rate shall include excavation, formwork, reinforcement, removal of surplus material as per shown in the drawing.	M ³	10		
2.7	FENCING				
2.7.1	Supply and install 1800mm High PVC-coated chain link fencing consisting of 75mm x 75mm x 6mm thk Mild Steel Angle post at 3.00m centre to centre with bottom end embedded in concrete (1:2:4-25mm aggregate) and with 64mm diamond mesh (No 10 S.W.G) PVC-coated chain-link fence, including 3 strands of No.8 SWG PVC-coated straining wire and including 75mm x 75mm x 6mm thk Mild Steel Angle Struts with bottom end embedded in concrete (1:2:4-25mm aggregate) and 3 strands of No.12 SWG barbed wire (both sides) fixed to post with approved Mild Steel Clip, 375mm x 125mm ground beam with 4T16 reinforcement bar and all other accessories as specified in the drawing. The scope of works includes other related works such as lay in-situ concrete for ground beam/footing for fencing with all necessary work including expansion joint, contraction joint, excavation, installation of formwork, lean concrete, filling, reinforcement, removal of surplus material all as per shown in the drawings and S.O's approval.	m	300		
2.7.2	Supply and install 900mm width x 1800mm high gate for fencing.	No	1		
2.8	CLOSE TURFING				
2.8.1	Close turfing on level surfaces including 100mm thick of top soil including trimming, levelling, grading surface, watering and tendering until well establish including maintenance during maintenance period etc as per drawing and specification or directed by S.O.	m ²	1840		
To Collection					

PROJEK PEMBAIKAN CERUN DAN KERJA-KERJA BERKAITAN DI SEKOLAH MENENGAH
KEBANGSAAN BUKIT GAMBIR, PULAU PINANG

BILL NO. 2 - SLOPE REMEDIAL WORKS (ALL PROVISIONAL)

ITEM NO.	DESCRIPTION OF WORK	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<p><u>COLLECTION</u></p> <p>Page BQ 2 - 12/26</p> <p>Page BQ 2 - 13/26</p> <p>Page BQ 2 - 14/26</p> <p>Page BQ 2 - 15/26</p>				
To Summary of Tender					

**PROJEK PEMBAIKAN CERUN DAN KERJA-KERJA BERKAITAN DI SEKOLAH MENENGAH KEBANGSAAN
BUKIT GAMBIR, PULAU PINANG**

BILL NO. 3 - DRAINAGE WORKS (ALL PROVISIONAL)

ITEM NO.	DESCRIPTION OF WORK	UNIT	QTY	RATE (RM)	AMOUNT (RM)
3.1	INTERCEPTOR DRAIN/BERM DRAIN				
3.1.1	75mm thick reinforced concrete Grade 30 as cast in-situ U-shaped drain top width not exceeding 450mm and to match finished invert level at maximum 2% inclination and depth to invert level not exceeding 450mm, 1 layer of BRC A8 fabric reinforcement, 50mm thick lean concrete Grade 15, including all necessary work, excavation, formwork, reinforcement, backfilling and removal of surplus material off site as per shown in the drawing.	M	220		
3.1.2	75mm thick reinforced concrete Grade 30 as cast in-situ U-shaped drain top width not exceeding 450mm and to match finished invert level at maximum 2% inclination and depth to invert level not exceeding 1000mm, 1 layer of BRC A8 fabric reinforcement, 50mm thick lean concrete Grade 15, including all necessary work, excavation, formwork, reinforcement, backfilling and removal of surplus material off site as per shown in the drawing.	M	30		
3.2	TOE DRAIN				
3.2.1	200mm thick reinforced concrete Grade 30 as cast in-situ U-shaped drain top width not exceeding 1000mm and to match finished invert level at maximum 2% inclination and depth to invert level not exceeding 1000mm, 2 layer of BRC A8 fabric reinforcement, 50mm thick lean concrete Grade 15, including all necessary work, excavation, formwork, reinforcement, backfilling and removal of surplus material off site as per shown in the drawing.	M	230		
3.3	CASCADE DRAIN				
3.3.1	150mm thick reinforced concrete Grade 30 as cascading drain top width not exceeding 600mm comprising of 2 layer of BRC A8 mesh fabric, depth to invert level not exceeding 1000mm, 50mm thick lean concrete Grade 15, 38mm diameter G.I. pipe handrail. Rate to include metal plate, bolt and nuts and all necessary excavation, formwork, reinforcement, backfilling and removal of surplus material off site as per shown in the drawing.	M	130		
3.3.2	Supply and lay 225mm thick block stone overall size 6" x 9" jointed in cementand sand (1:3) mortar as shown in the drawing	M ²	130		
3.4	HORIZONTAL PIPE DRAIN				
3.4.1	Supply and install horizontal drain, drilling in soil/rock with 75mm dia. of Non-Slotted UPVC Perforated Pipe class D wrapped with non-woven geotextile as saporator with tensile strength 20kN/m (tied with steel wire) as subsoil drain at 1m c/c including all necessary work as specified in the drawing.				
	i. 9m long	No.	30		
To Collection					

PROJEK PEMBAIKAN CERUN DAN KERJA-KERJA BERKAITAN DI SEKOLAH MENENGAH KEBANGSAAN
BUKIT GAMBIR, PULAU PINANG

BILL NO. 3 - DRAINAGE WORKS (ALL PROVISIONAL)

ITEM NO.	DESCRIPTION OF WORK	UNIT	QTY	RATE (RM)	AMOUNT (RM)
3.5	SUMP				
3.5.1	(S1). 200mm thick reinforced concrete Grade 30 as sump overall size 1500mm x 1500mm average depth not more than 1500mm comprising of 2 layers of BRC A10 mesh fabric, 50mm thick lean concrete Grade 15 with heavy duty mild steel grating cover hinge to frame including all necessary excavation, formwork, reinforcement, backfilling and removal of surplus material off site as per shown in the	NO	5		
3.5.2	(S2). 150mm thick reinforced concrete Grade 30 as sump overall size 750mm x 750mm average depth not more than 750mm comprising of 2 layers of BRC A10 mesh fabric, 50mm thick lean concrete Grade 15 with heavy duty mild steel grating cover hinge to frame including all necessary excavation, formwork, reinforcement, backfilling and removal of surplus material off site as per shown in the drawing.	NO	13		
3.5.3	(S3). 200mm thick reinforced concrete Grade 30 as sump overall size 750mm x 750mm average depth not more than 1200mm comprising of 2 layers of BRC A10 mesh fabric, 50mm thick lean concrete Grade 15 with heavy duty mild steel grating cover hinge to frame including all necessary excavation, formwork, reinforcement, backfilling and removal of surplus material off site as per shown in the drawing.	NO	1		
To Collection					

PROJEK PEMBAIKAN CERUN DAN KERJA-KERJA BERKAITAN DI SEKOLAH MENENGAH KEBANGSAAN
BUKIT GAMBIR, PULAU PINANG

BILL NO. 3 - DRAINAGE WORKS (ALL PROVISIONAL)

ITEM NO.	DESCRIPTION OF WORK	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<p><u>COLLECTION</u></p> <p>Page BQ 3 - 17/26</p> <p>Page BQ 3 - 18/26</p>				
To Summary of Tender					

PROJEK PEMBAIKAN CERUN DAN KERJA-KERJA BERKAITAN DI SEKOLAH MENENGAH
KEBANGSAAN BUKIT GAMBIR, PULAU PINANG
BILL NO. 4 - PROVISIONAL SUM

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
4.1	RELOCATION OF UTILITIES Allow for provisional sum amounting RINGGIT MALAYSIA : Fifty Thousand Only for Relocation Of Utilities during construction period to be expended as directed by S.O and to be deducted in whole or in part if not required. Allow for Profit Allow for Attendance	% sum			50,000.00
4.2	COMPLIANCE OF LOCAL AUTHORITIES CONDITIONS FOR REPLACEMENT OF TREES & LANDSCAPE Allow for provisional sum amounting RINGGIT MALAYSIA : EIGHTY THOUSAND ONLY for Compliance Of Local Authorities Conditions For Replacement Of Trees & Landscape during construction period to be expended as directed by S.O and to be deducted in whole or in part if not required. Allow for Profit Allow for Attendance	% sum			80,000.00
To Summary Of Tender					

If the Contractor fails to provide or maintain any equipment(s) for the facilities as listed hereunder the Government shall have the right to procure the equipment(s) from other sources or maintain it and all expenses arising shall be borne by the Contractor and an appropriate adjustment shall be made to the Contract Sum.

(a) 1 set Laptop and Printer

LAPTOP SPECIFICATION

- 1) Latest Generation Intel® Core i7 Processor or higher with Graphic Card
- 2) Memory : 16 GB DDR4-3200 SDRAM
- 3) Storage : 1TB SSD
- 4) Wireless Stereo speakers
- 5) Wireless Mouse
- 6) HDMI connection cable to projector
- 7) 1 nos of 1TB External Storage

SOFTWARE

The computer system shall be supplied together with latest genuine software with :

- 1) Microsoft Windows 10 or latest version
- 2) Microsoft Office Business Edition or latest Version
- 3) Anti-Virus

PRINTER

The computer system shall be supplied together with printer with minimum specifications as follow :

- 1) Colour Printer
- 2) Printing speed up to 18ppm(page per minute)
- 3) Printing accessories (bundled with printer)
- 4) Refillable ink tanks
- 5) Wireless, High-volume printer tank, Print from phone or tablet, Scan to PDF

Consumable Items

1. 500GB portable external hard disk or higher(for each computer system)

All software to be supplied under this contract shall be genuine and legal with license. The software shall be registered under the name of contractor. The contractor shall submit all documentary evidence of the authenticity and the legality of the software. Upon issuance of Certificate of Practical Completion, all equipment and relevant inventory shall revert back to Contractor.

1) 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. Safety and Health Control Form 6. 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

1) REQUIREMENTS OF 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. Employee and Worker's Registrations.
8. Registration of Machineries, Equipment and Plants.
9. Traffic and safety controls.
10. Occupational Safety and Health Committee.

Whenever there is any dispute arises, item listed as per Prosedur Kawalan