Dokumen Meja Terkawal

DOKUMEN MEJA

JABATAN PENGAIRAN DAN SALIRAN NEGERI SELANGOR

Sebutharga untuk kerja Bahagian Saliran Mesra Alam (BSMA), JPS Negeri Selangor

Kepada:

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Sebutharga kerja untuk: **Kerja Penyiasatan Tanah**
No. Sebutharga : **JPS/N/BSMA/CP/34/2026(SH)**

Sebutharga dikeluarkan oleh :
Ketua Penolong Pengarah
Bahagian Saliran Mesra Alam
JPS Negeri Selangor

Tarikh : **28 OKTOBER 2026**

Sila sebutkan harga bagi mengadakan segala bahan-bahan, peralatan, jentera dan tenaga buruh serta mengikuti syarat-syarat yang ditentukan bagi kerja:-

KERJA-KERJA PENYIASATAN TANAH BAGI REKABENTUK TERPERINCI PROJEK MEMBINA KOLAM TAKUNGAN BANJIR DI KAWASAN BANJIR DI KAWASAN SUNGAI JATI, DAERAH KLANG, SELANGOR DARUL EHSAN.

Tawaran akan ditutup pada 12.00 tengahari **5 NOVEMBER 2026** di **Pejabat Jabatan Pengairan dan Saliran Negeri Selangor, Selangor Darul Ehsan**. Tawaran hendaklah di masukkan kedalam sampul surat bermeteri yang di tandakan di sudut kanan Rujukan Sebutharga.

Bil	Butir-butir kerja	Unit	Kuantiti	Harga (RM)	Jumlah (RM)
1.0	**GENERAL & PRELIMINARIES**				
1.1	Mobilization to site and demobilization on completion of all equipment necessary for execution of the Site Operations and installation of the Ancillary Works.	L.Sum	-		
1.2	Allow for Insurance of Works & Third Party Insurance, Public Liability Policy (inclusive of cover against damages to overhead and underground services), SOCSO, and Workmen's Compensation Insurance.	L.Sum	-		
1.3	Provision of 6 sets of the final report. The report shall include photograph and S.I. data in approved format. The Final Report shall be endorsed by Professional Engineer.	L.Sum	-		
1.4	Provide survey for setting out all exploration hole locations & final survey of as-built locations level of all exploration hole.	L.Sum	-		
	JUMLAH DI BAWA KE MS B/2				

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Bil	Butir-butir kerja	Unit	Kuantiti	Harga (RM)	Jumlah (RM)
	JUMLAH DIBAWA DARI MS B/1				
1.5	Allow for all work (including preparation of access & necessary staging) in relation with working in built up areas including obtaining relevant permits from authorities, night work, if necessary, reinstatement of pavement & location of services.	L.Sum	-		
1.6	Provide full time professional engineering geologist during site operation to LOG & DESCRIBE SOIL AND ROCK SAMPLES in particular lithology of rock, weathering grade, type and orientation of discontinuities, type and consistency of in fill materials in joints.	L.Sum	-		
1.7	Detection of all underground utilities and services within 1m radius of each test locations as shown in drawing or as instructed by S.O. a. Mobilisation and demobilisation b. Each testing locations	L.Sum	-		
1.8	To provide an adequate electricity and water supplies for the execution of the Works including paying all associated cost and fees as directed by the S.O.	L.Sum	-		
1.9	Removal of all debris; rubbish and waste from the site and keep the working area clean at all time during construction period and upon completion of the Works.	L.Sum	-		
1.10	Provide all necessary signages and proper barricades for public safety as directed by the S.O.	L.Sum	-		
1.11	Delivery and transportation of all samples from site to the approved laboratory.	L.Sum	-		
	JUMLAH DIBAWA KE MS B/3				

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Bil	Butir-butir kerja	Unit	Kuantiti	Harga (RM)	Jumlah (RM)
	JUMLAH DIBAWA DARI MS B/2				
2.0	**BOREHOLE BORING AND CORING**				
2.1	Movement : Rotary Wash Boring / Core Drilling				
2.1.1	Setting out of location, setting up and moving the drilling rig and ancillaries, from one borehole position to the next, including dismantling at the old position and erecting at the new position (on land).	no.	2		
2.2	Rotary Wash Boring in Soil				
2.2.1	Carry out boring whether cased or uncased from existing ground level not exceeding (n.e.) 10m.	no.	3		
2.2.2	Ditto - exceeding 10m but n.e. 20m	m	30		
2.2.3	Ditto - exceeding 20m but n.e. 30m	m	30		
2.2.4	Ditto - exceeding 30m but n.e. 40m	m	30		
2.2.5	Ditto - exceeding 40m but n.e. 50m	m	30		
2.2.6	Ditto - exceeding 50m but n.e. 60m	m	30		
2.3	Insitu Testing: Standard Penetration Test (SPT)				
2.3.1	Carry out Standard Penetration Test including collection of disturbed samples using split barrel tube, complete with spring core catcher to minimize the risk of no or low sample recovery, as per Specification, depth from ground level not exceeding (n.e.) 10m.	no.	18		
2.3.2	Ditto - exceeding 10m but n.e. 20m	no.	21		
2.3.3	Ditto - exceeding 20m but n.e. 30m	no.	18		
2.3.4	Ditto - exceeding 30m but n.e. 40m	no.	18		
2.3.5	Ditto - exceeding 40m but n.e. 50m	no.	18		
2.3.6	Ditto - exceeding 50m but n.e. 60m	no.	21		
	JUMLAH DIBAWA DARI MS B/4				

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Bil	Butir-butir kerja	Unit	Kuantiti	Harga (RM)	Jumlah (RM)
	JUMLAH DIBAWA DARI MS B/3				
3.0	**SAMPLING & INSTRUMENTATION**				
3.1	Sampling				
3.1.1	Obtain minimum 75mm diameter undisturbed samples using thin wall tube sampler of 1m length, as per Specification, depth from existing ground level not exceeding (n.e.) 10m.	no.	9		
3.1.2	Ditto – exceeding 10m but n.e. 20m	no.	6		
3.1.3	Ditto – exceeding 20m but n.e. 30m	no.	3		
3.1.4	Extra over item 3.1.1, if piston-sampler is used to procure soft cohesive soil sampling.	no.	9		
4.0	**LABORATORY TEST**				
4.1	Classification Tests on Disturbed or Undisturbed samples as Specified in BS1377: 1990 or other equivalent Standard.				
4.1.1	Moisture Content (NMC)	no.	46		
4.1.2	Liquid Limit (LL)	no.	46		
4.1.3	Plastic Limit (PL)	no.	46		
4.1.4	Specific Gravity (SG)	no.	46		
4.1.5	Bulk Density	no.	46		
4.1.6	Particle size distribution for coarse-grained soil (Sieve analyses - Test 7A or 7B)	no.	46		
4.1.7	Particle size distribution for fine - grained soil (Hydrometer test - Test 7C or 7D)	no.	46		
	JUMLAH DIBAWA DARI MS B/5				

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Bil	Butir-butir kerja	Unit	Kuantiti	Harga (RM)	Jumlah (RM)
	JUMLAH DIBAWA DARI MS B/4				
4.2	Strength and Compressibility Tests on Undisturbed samples as Specified in BS1377: 1990 or other equivalent Standard.				
4.2.1	One dimensional consolidation.	set	18		
4.2.2	Unconsolidated Undrained (UU) Triaxial Compression test on a (1) specimen of 70mm diameter specimen.	no.	9		
4.3	Chemical Test on Disturbed or Undisturbed soil/water samples.	no.	6		
4.3.1	Total Sulphate content in soil or water samples.	no.	6		
4.3.2	Sulphate content in soil samples.	no.	6		
4.3.3	Chloride content in soil or water samples.	no.	6		
4.3.4	pH value of soil or water samples.	no.	6		
4.3.5	Organic matter content in soil samples.	no.	6		
5.0	**OTHER FIELD TEST**				
5.1	Mackintosh Probe (MP) Test				
5.1.1	Mobilisation of all plants and equipments to the site including transfer between different locations within the site, handling assembling and demobilisation upon completion.	L.Sum	-		
5.1.2	Carry out Mackintosh Probes as per specification, maximum depth from natural ground or water level not exceeding 15m.	no.	18		
	JUMLAH KESELURUHAN				

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RINGGIT MALAYSIA : .....

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TEMPOH KERJA DISIAPKAN : 4 MINGGU

PROPOSED SOIL INVESTIGATIONS (SI) LAYOUT PLAN



