

NO. SEBUT HARGA : MBSJ.KUB.400-5/7/1122

BIL.	HURAIAN KERJA	JUMLAH (RM)
	KEHENDAK PERMULAAN DAN SYARAT-SYARAT AM Menyediakan perkara-perkara berikut:-	
A	Kerja-kerja awalan seperti penyediaan pengangkutan oleh pihak kontraktor bagi menghantar ke tapak serta mengeluarkan dari tapak peralatan/mesin/ jentera/loji/lori, buruh, penyediaan laluan keluar/masuk sementara bagi kerja-kerja penyiasatan tanah dan lain-lain kerja berkaitan. (sila rujuk lampiran di dalam <i>Preambles</i>)	
	Perlindungan Takaful/Perlindungan Insurans	
B	Polisi takaful/Insurans Tanggungan Awam (iaitu takaful/insurans terhadap bencana kepada orang-orang dan kerosakan kepada harta)	
C	Polisi takaful/Insurans Kerja	
D	Nombor-nombor pendaftaran di bawah Skim Keselamatan Sosial Pekerja (PERKESO)	
	**Kontraktor adalah digalakkan untuk mengambil pelan <i>perlindungan takaful berbanding pelan perlindungan insurans</i>.	
	Papantanda Projek	
E	Kerja-kerja bekal dan pasang satu (1) papantanda projek mengikut spesifikasi yang telah ditetapkan. Hendaklah dipasang sebelum projek berjalan hingga siap projek termasuk membuka dan membawa keluar dari tapak.	
	Laporan Bergambar & Tuntutan Bayaran	
F	Menyediakan laporan bergambar sebelum, sedang dan selepas kerja dijalankan di tapak. Penyediaan tuntutan bayaran lengkap dengan gambar sebelum, semasa dan selepas siap kerja dan dijilidkan, diserahkan semasa membuat tuntutan pembayaran lengkap dengan inbois, borang <i>taking off</i> , pelan lokasi, gambar kerja beserta tarikh dan dijilid kemas. (laporan bergambar disediakan dan dijilidkan dalam 2 salinan berwarna)	
	Peralatan Keselamatan	
G	Penyediaan peralatan keselamatan yang mencukupi semasa bekerja seperti papantanda, amaran/lalulintas, topi keselamatan, but keselamatan, <i>safety vest</i> , bendera, lampu bikon, kon, pita keselamatan (<i>red & white hazard</i>) sebanyak tiga (3) lapisan termasuk tiang kayu dan lain-lain keperluan yang berkaitan sepanjang tempoh kerja untuk semua pekerja/kakitangan kontraktor.	
	Penyediaan Jadual Perancangan Kerja (<i>Work Programme</i>)	
H	Menyediakan dan mengemukakan Jadual Perancangan Kerja (<i>Work Programme</i>) sebelum kerja di tapak bagi memantau dan mengenalpasti status kemajuan kerja di tapak dari masa ke semasa.	
	Laporan Kerja	
J	Penyediaan dan penyerahan dua (2) salinan deraf laporan, satu (1) laporan akhir asal dan tiga (3) salinan laporan akhir termasuk salinan digital (<i>softcopy</i>) dalam format PDF.	
JUMLAH DI BAWA KE RINGKASAN SEBUT HARGA (RM) :		

BIL.	HURAIAN KERJA	JUMLAH (RM)
	<p>KEHENDAK PERMULAAN DAN SYARAT-SYARAT AM (Samb.) Menyediakan perkara-perkara berikut:-</p> <p>Project Requirements</p> <p>A <i>Water and Electricity Supply</i> <i>i) Provide and adequate power and water supplies for the execution of the Works including paying all associated cost and fees as directed</i></p> <p>B <i>Keeping Site Clean and Tidy</i> <i>Removed all debris; rubbish and waste from the site and keep the working area clean all the time during construction period</i></p> <p>C <i>Cleaning of Site Upon Completion</i> <i>Allow for clearing away accumulated rubbish, cleaning and making good on completion during the progress of Works and before handing over as specified</i></p> <p>D <i>Maintain and protect against damage of existing infrastructure throughout construction period and making good upon completion as decided by SO. (Provisional)</i></p> <p>Authorities's Requirements <i>Compliance with The Law/OSHA or other Statutory Requirements</i></p> <p>E <i>i) Comply in all respects (including the giving of all notices and the paying of all fees required) with any law, regulation or by-law, or any order or directive issued by any public authority or public services company relating to the workk or in the case of public authority or public service company with those system the same area or will be connected</i></p> <p>Contractor's Requirements Supervision <i>i) Provision of Professional Engineer with Certificate (PEPC)/ Professional Geologist (P. Geol) for monitoring and supervise on site/laboratory including endorse the SI report The PE/P.Geol may appoint a qualified representative on his behalf to carry out monitoring and supervision subject to S.O approval.</i></p> <p>F <i>Up to 5 boreholes including all in-situ tests.</i></p>	
JUMLAH DI BAWA KE RINGKASAN SEBUT HARGA (RM) :		

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BIL	HURAIAN KERJA	UNIT	KUANTITI	KADAR (RM)	JUMLAH (RM)
	<p>DEEP BORING Notes: Rate to include ground water observation</p> <p>Mobilisation and Demobilisation Mobilisation of boring plant and all equipments to the site including transfer between different location within the site, handling, assembling and demobilisation upon completion (Payment shall be made based on actual distance of site location and supported by documents as approved by the S.O.):</p>				
A	Over 25km and up to 125km from contractor's office	SUM	6		
	<p>Plant Movement Shifting of plant and equipment from one borehole position to the next borehole position, rate to include dismantling from one position and erecting at another position where the borehole is to be carried out on:</p>				
B	Flat land	NOS	6		
	<p>Boring in Soil Carrying out vertical boring in soil using boring equipment (NW size) for depth measured from Commencing Surface using suitable drilling medium. Rate to include provision of casing where necessary.</p>				
C	Not exceeding 10 m (n.e.) 10 m (inclusive 3m in rocks)	NOS	12		
D	Ditto exceeding 10 m but n.e. 20 m	M	120		
E	Ditto exceeding 20 m but n.e. 30 m	M	120		
JUMLAH KESELURUHAN DIBAWA KE BORANG SEBUT HARGA (RM)					

BIL	HURAIAN KERJA	UNIT	KUANTITI	KADAR (RM)	JUMLAH (RM)
	Test				
	Standard penetration test				
A	Not exceeding 10 m	M	96		
B	Ditto exceeding 10 m but n.e. 20 m	M	72		
C	Ditto exceeding 20 m but n.e. 30 m	M	84		
	Sampling				
	Carry out the following sampling in borehole including transportation and protection as per Specification				
	Undisturbed samples using thin wall tube sampler (U2.5 with minimum length diameter 750mm).				
D	Not exceeding 10 m	M	12		
E	Ditto exceeding 10 m but n.e. 20 m	M	12		
F	Ditto exceeding 20 m but n.e. 30 m	M	12		
	Miscellaneous				
G	Borehole marker with concrete base 300mm x 300mm x 200mm with PVC pipe 50mm diameter for every borehole until minimum depth of 0.5m. The marking of the borehole must be clear labelled, coloured and permanent (at PVC pipe and/or concrete base)	NOS	12		
	LABORATORY TEST				
	All laboratory test shall consists of rock/soil/water samples as directed:				
	<u>Classification Test</u>				
H	Moisture content	NOS	216		
	Atterberg limits				
J	Cone Penetrometer- Liquid limit (LL) definitive (four-point) method, Plastic Limit & Plasticity Index derivation	SET	216		
K	Bulk Density Test	NOS	216		
L	Specific gravity (pyknometer)	NOS	216		
M	Particle size distribution for fine-grained soils (hydrometer)	NOS	216		
	<u>Soil Strength Tests (Each set shall consist of 3 nos. of Consolidated undrained triaxial (C.I.U) compression test with pore water pressure measurement</u>				
N	70 / 72mm dia.,	SET	36		
JUMLAH KESELURUHAN DIBAWA KE BORANG SEBUT HARGA (RM)					

BIL	HURAIAN KERJA	UNIT	Kuantiti	KADAR (RM)	JUMLAH (RM)
	<p><u>GEOPHYSICAL SURVEY AND MAPPING</u></p> <p><i>Notes:</i> All rates shall include provision of all equipment, transportation to the site, including transfer between location within the site, handling, assembling and removal of the site after completion of operation</p> <p><u>Seismic Works</u></p>				
A	Setting out the seismic refraction line (including clearing any obstruction/ rentising), laying down/ positioning the geophones at specific equal interval as per Designer's requirements.	LINE	6		
B	Carry out data acquisiton of seismic refraction survey with a 24-channel seismograph with geophones at specific equal intervals and 7 shots per set (115m length), using any mechanical source (eg:sledge hammer, weight drop etc.) as the seismic energy source.	LINE	6		
C	Processing and interpretation of seismic survey/work including data analysis to produce geological profile /subsurface model with describing subsurface layers and seismic velocity,conclusion and recommendation of the survey.Interpretation shall incorporate borehole data where available.	SUM	6		
	<u>Preparatory/Preliminary</u>				
D	Preparation documentation, man power and equipment to site	DAY	6		
	<u>Mobilization & Demobalization</u>				
E	Allow for complience with the specification, mobilise and demobalise all manpower and utilities detection equipment to site	DAY	6		
	<u>Reporting</u>				
G	Preparation and submission of three(3) original sets of result and comprehensive drawings in hardcopy and 1 set of softcopy in CAD file format (burn into CD-Rom) submission of lay out plan	NOS	3		
JUMLAH KESELURUHAN DIBAWA KE BORANG SEBUT HARGA (RM)					