

JABATAN KERJA RAYA MALAYSIA

**KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI
LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN,
DAERAH KUALA TERENGGANU, TERENGGANU**

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: **TEND/JKRNT/BKUB/15/2024**
- E. Tarikh Cipta Senarai Kuantiti: **3/12/2024**

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

JABATAN KERJA RAYA MALAYSIA

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

SENARAI KUANTITI

No. Tender: TEND/JKRNT/BKUB/15/2024

RINGKASAN TENDER**KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU**

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Jumlah di bawa ke Borang Tender			-

RT/1

1 GENERAL ITEMS

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
	A100	CONTRACTUAL REQUIREMENTS				
	A111	<u>Performance Bond</u>				
A		Performance bond; Banker's/Insurance/Financial Institution Guarantee* * Do not price if tenderer opt for Performance Guarantee Sum	sum			
	A120	<u>Insurances</u>				
B	A121	Insurance of Works	sum			
C	A122	Public liability insurance	sum			
D	A123	SOCSSO/Workmen compensation insurance	sum			
	A140	<u>Statutory Obligations</u>				
E		Compliance with law, regulations or by laws, or any order or directive issued by public authorities.	sum			
	A200	SO REQUIREMENTS				
	A210	<u>Facilities</u>				
		<u>Establishment and removal of office as per specification. Rate shall be deem to include the provision of water supply, electricity and communication facilities</u>				
F	A211	JKR Design / Relocatable Type / Rent Shoplot	sum			
G	A212	Maintenance of Office	mth	24		
	A240	<u>Attendance for the SO's Representative</u>				
H	A245	Provide 1 no. of licensed Security guard	man-mth	24		

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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1 GENERAL ITEMS (CONT'D)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
	A200	<u>SO REQUIREMENTS (Cont'd)</u>				
	A250	<u>Submission of documents</u>				
A	A254	Works Programme in Microsoft Project on a Gantt Chart format and required personnel to update the programme as per Specification	sum			
	A260	<u>Miscellaneous</u>				
B	A262	Project signboard	nr	1		
C	A263	As built drawings as per specification	sum			
D	A269	Project report in 5 sets comprising of progress report and quality control report. All the reports to be converted/scanned to a digital copy (in pdf format or equivalent and stored in CD) and to be enclosed with each set of the Project Report including compilation of Progress photographs and Video recording i) Photographic and video capture of the work progress on ground using camera. ii) Aerial Photography and Aerial Video capture of the work progress using Drone or Unmanned Aerial Vehicle/UAV	mth	24		
	A300	<u>PROJECT REQUIREMENTS</u>				
	A310	<u>Survey and setting out</u>				
E		Survey and setting out by licensed surveyor	sum			
	A321	<u>Quality Assurance/Quality Control (QA/QC)</u>				
F		QA/QC Plan as per specification.	sum			
	A360	<u>Clearance of site upon completion</u>				
G		Clearance of site upon completion shall be deemed to include making good all affected works	sum			

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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1 GENERAL ITEMS (CONT'D)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
	A500	<u>CONTRACTOR'S REQUIREMENTS</u>				
		<u>Contractor's Facilities</u>				
		Item shall be deemed to include the provision of water supply, electricity, and sanitary facilities and their continuing operation and maintenance				
A	A511	Establishment, maintenance and removal of office as per specification	sum			
B	A512	Provision and maintenance of office equipment; remove upon completion	sum			
C	A515	Establishment, maintenance and removal of stores as per specification	sum			
D	A517	Establishment, maintenance and removal of workmen accomodation as per specification	sum			
	A550	<u>Site Management (inclusive all staff)</u>				
		Provide, maintain and removal of supervision; fixed and time related charges (detail stated):				
E	A551	Supervision	sum			
F	A552	Administration	sum			
G	A553	Labour team	sum			
	A560	<u>Mobilisation and demobilisation</u>				
H		Mobilisation and demobilisation of any construction plants and equipments; fixed charge excluding piling and other specialist works	sum			

1 GENERAL ITEMS (CONT'D)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<p style="text-align: center;"><u>COLLECTION</u></p> <p style="text-align: center;"><u>From Page</u></p> <p style="text-align: center;">1/1/4</p> <p style="text-align: center;">1/2/4</p> <p style="text-align: center;">1/3/4</p>				
KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU					To "Ringkasan Tender"	

2 DEMOLITION AND SITE CLEARANCE

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		Items for demolition and site clearance shall be deemed to include disposal of the materials arising at the contractor's own disposal site outside the R.O.W as approved by the S.O/P.D.				
	E100	<u>GENERAL CLEARANCE</u>				
	E120	<u>Water bodies</u>				
A		General clearance at water bodies ; at swamp; for objects either floating, submerged or at the bed of water bodies	ha	1.2		
		<u>DEMOLITION AND REMOVAL FROM SITE OF ALL BUILDINGS AND EXISTING STRUCTURES</u>				
	E400	<u>STRUCTURES</u>				
		<u>Timber</u>				
B		Demolish and removal of existing timber structures – 5 units with a gross built-up area not exceeding 100m2	sum			
C		Demolish and removal of existing timber structures – 11 units with a gross built-up area exceeding 100m2	sum			
		<u>Concrete</u>				
D		Demolish below ground concrete structure; Twin box culverts including headwall, wingwall, inlet, outlet and foundation overall 16m long x 2.4m wide	sum			
		<u>Equipment And Accessories</u>				
	E441	Dismantle and send to store for reuse as directed by S.O. for the following item :-				
E		Guardrails	sum			
F		Signboard	sum			
G		Three (3) nos. road lighting pole	sum			

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To "Ringkasan Tender"

3 EARTHWORKS

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>STRIPPING</u>				
	F110	<u>Stripping Of Topsoil</u>				
A	F111.1	Stripping topsoil of average depth of 150mm and disposed to the Contractor's dumpsite as approved by the S.O.	m ²	3500		
		<u>SPREAD, GRADE AND COMPACT</u>				
		<u>GENERAL</u>				
		The following items for filling shall include compaction, testing and confirmation material and additional filling necessitated by settlement or penetration into underlying material as applicable				
		<u>Embankments</u>				
B	F322	Imported material from Contactor's own source as per Specification to form embankment	m ³	3500		
		<u>LANDSCAPING</u>				
		Items for landscaping shall be deemed to include digging, planting media, bedding, staking, protection, watering, weeding, required fertilising, and replacement of dead item until the vegetation is established				
C	F410.2	Close turfing to slopes as per specification	m ²	1200		
KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU					To "Ringkasan Tender"	

4 DRAINAGE WORKS

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>SURFACE DRAIN</u>				
		<u>Excavation in Earth</u>				
		Drain excavation shall be deemed to include preparation of surfaces, double handling, disposal of surplus excavated material, upholding sides of excavation, allowance for joints, backfilling and removal of dead services and reinstatement of Original Surface unless covered by separate items				
	Q111	<i>Excavate trench in earth; Depth not exceeding 1.5m for :-</i>				
A		450mm U-shaped drain	m	50		
B		300mm channel drain	m	550		
C		750mm (base width) earth channels to shapes and sizes as shown in the drawings	m	700		
	Q230	<u>Roadside Drain</u>				
D		450mm RC U-shaped	m	50		
E		300mm Channel drain	m	550		
		<u>SUMPS</u>				
	Q141	<u>Excavation in Earth</u>				
F		Excavate sumps in earth; 750mm x 750mm	m ³	4		
	Q720	<u>Precast Concrete Sump</u>				
G		Precast concrete; Sump 750mm x 750mm including mild steel grating cover	nr	4		

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To "Ringkasan Tender"

5 PAVEMENT WORKS

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>FLEXIBLE PAVEMENT</u>				
		In accordance to latest Standard Specification for Road Works hereafter referred to as the Specification (rate to include all the tests required)				
		<u>NEW PAVEMENT</u>				
	R100	<u>Subgrade Preparation</u>				
A	R110	Earth material to receive road pavement. Rate to include clearing, grubbing, stripping topsoil, scarifying, levelling, and compaction of the top 300mm of the subgrade	m ²	4700		
		<u>CARRIAGEWAY AND PAVED SHOULDER</u>				
	R200	<u>Sub-base</u>				
	R220	<u>Sub-base course</u>				
	R221	<i>150mm thick granular material with a CBR value of not less than 30%, complying with grading limits of the Specification</i>				
B		Carriageway and Paved Shoulder	m ²	4340		
C		Median and Island	m ²	160		
D		Access Road	m ²	200		
	R300	<u>Roadbase</u>				
	R320	<i>350mm thick crushed aggregates with a CBR value of not less than 80%, complying with the Specification</i>				
E		Carriageway and Paved Shoulder	m ²	4340		
F		Median and Island	m ²	160		
G		Access Road	m ²	200		

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5 PAVEMENT WORKS (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>FLEXIBLE PAVEMENT (Cont'd)</u>				
		In accordance to latest Standard Specification..... (Cont'd)				
		<u>NEW PAVEMENT (Cont'd)</u>				
	R500	<u>Bituminious Pavement Courses</u>				
	R520	<i>Bituminous prime coat to be applied at a rate as stated in Specification</i>				
A		Carriageway and Paved Shoulder	m ²	4340		
B		Median and Island	m ²	160		
C		Access Road	m ²	200		
	R530.1	<i>Bituminious tack coat to be applied at a rate as stated in Specification</i>				
D		Carriageway and Paved Shoulder	m ²	7271		
E		Access Road	m ²	200		
	R541	<i>60mm Thick asphaltic concrete binder course (AC28); as per Specification</i>				
F		Carriageway and Paved Shoulder	m ²	4340		
G		Access Road	m ²	200		
	R551.2	<i>50mm Thick asphaltic concrete wearing course (AC14); as per Specification</i>				
H		Carriageway and Paved Shoulder	m ²	7271		
J		Access Road	m ²	200		
	R410	<u>Fill Material On Unpaved Shoulder</u>				
K	R410.2	625mm Thick earth shoulder; as per Specification; imported suitable material from Contractor's own source	m ²	160		

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5 PAVEMENT WORKS (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>FLEXIBLE PAVEMENT (Cont'd)</u>				
		In accordance to latest Standard Specification..... (Cont'd)				
	R570	<u>TREATMENT TO EXISTING PAVEMENT</u>				
	R579.1	<u>Patching</u>				
A		Mark, cut and break up existing pavement; Cart away and disposed; Patching and compacting with patching material including tack coat; Brooming and cleaning; All other items necessary for the proper execution and completion of the works	m ²	50		
	R590	<u>RECONSTRUCTION OF EXISTING PAVEMENT</u>				
B		Scarifying and breaking up of existing pavement	m ²	50		
	R200	<u>Sub-base</u>				
	R220	<u>Sub-base course</u>				
C	R221	150mm thick granular material with a CBR value of not less than 30%, complying with grading limits of the Specification	m ²	50		
	R300	<u>Roadbase</u>				
D	R320	350mm thick crushed aggregates with a CBR value of not less than 80%, complying with the Specification	m ²	50		
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5 PAVEMENT WORKS (CONT'D)**(PROVISIONAL QUANTITY)**

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>FLEXIBLE PAVEMENT (Cont'd)</u>				
		In accordance to latest Standard Specification..... (Cont'd)				
		<u>RECONSTRUCTION OF EXISTING PAVEMENT (Cont'd)</u>				
	R500	<u>Bituminous Pavement Courses</u>				
A	R520	Bituminous prime coat to be applied at a rate as stated in Specification	m ²	50		
B	R530.1	Bituminous tack coat to be applied at a rate as stated in Specification	m ²	50		
C	R541	60mm Thick asphaltic concrete binder course (AC28); as per Specification	m ²	50		
D	R551.2	50mm Thick asphaltic concrete wearing course (AC14); as per Specification	m ²	50		

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5 PAVEMENT WORKS (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<p style="text-align: center;"><u>COLLECTION</u></p> <p style="text-align: center;"><u>From Page</u></p> <p style="text-align: center;">5/1/5</p> <p style="text-align: center;">5/2/5</p> <p style="text-align: center;">5/3/5</p> <p style="text-align: center;">5/4/5</p>				
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6 ROAD FURNITURE

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
	R810	<u>SIGNAGE</u>				
	R811	<u>Warning and Regulatory Traffic Signs</u> Traffic signs shall generally be in accordance with the latest version of Arahan Teknik (Jalan) 2A/85. Post mounted signages shall be deemed to include foundations, support posts, purlins frame and connections, excavation, preparation of surfaces, disposal of excavated material, upholding sides of excavation, backfilling, concrete, reinforcement, and joints. <i>Non-illuminated high intensity prismatic retro-reflective mounted on aluminium alloy sign plate for :-</i>				
A		Type 'RP 13'	nr	1		
B		Type 'RP 7(b)'	nr	1		
C		Type 'WD 20'	nr	1		
D		Type 'WD 36'	nr	1		
E		Type 'WD 23'	nr	1		
F		Type 'WD 24a'	nr	6		
G		Type 'WD 24b'	nr	6		
H		Type 'WD 31'	nr	1		
J		Type 'RM 4'	nr	2		
KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU					To Collection Page	

6 ROAD FURNITURE (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
	R820	<u>PAVEMENT MARKING</u> Hot-applied reflectorised thermoplastic road markings Pavement markings shall generally be hot-applied reflectorised thermoplastic and in accordance with the latest version of Standard Specification for Road Works : Section 6 : Road Furniture (Road Markings)				
	R823	<u>Intermittent line</u>				
A		Type 4 - Give-Way Line	m	20		
B		Type 6 - No Passing Zone (Double Line)	m	40		
	R822	<u>Continous line</u>				
C		Type 1 - Continuity line;	m	20		
D		Type 2 - Centre Line / Lane Line.	m	800		
E		Type 3 - Edge Line	m	1600		
	R824	<u>Chevron marking</u>				
F		Chevron marking (Merging)	m ²	10		
	R821	<u>Direction arrow and pavement marking</u>				
G		Single straight directional arrow	nr	5		
H		Single turning directional arrow	nr	1		
J		Double headed directional arrow	nr	2		

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6 ROAD FURNITURE (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
	R700	<u>KERBS, CHANNEL, AND EDGINGS</u> Rate for kerbs, channels, and edgings shall be deemed to include beds, backings, reinforcement, joints, and cutting.				
A	R720	<u>Cast In-Situ Concrete Kerb</u> In-situ concrete kerbs; Type SM 1;	m	150		
	R830	<u>DELINEATORS</u>				
B	R833	<u>Retroreflective Road Stud</u> Raised Reflective Pavement Marker (RRPM) shall generally be in accordance with the latest version of Arahan Teknik (Jalan) 2D/85 Retroreflective roadstud as per Drawing	nr	50		
	R850	<u>MISCELLANEOUS</u>				
C	R853	<u>Kilometre Post</u> Kilometre post inclusive of all necessary works at location and details as shown in the drawing or as directed by the S.O/P.D*	nr	1		

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6 ROAD FURNITURE (CONT'D)

(PROVISIONAL QUANTITY)

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		<p style="text-align: center;"><u>COLLECTION</u></p> <p style="text-align: center;"><u>From Page</u></p> <p style="text-align: center;">6/1/4</p> <p style="text-align: center;">6/2/4</p> <p style="text-align: center;">6/3/4</p>				
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7 GEOTECHNICAL WORKS

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
A	G570	<p><u>GROUND TREATMENT</u></p> <p><u>SOFT GROUND REPLACEMENT / STABILITY</u></p> <p><u>Geotextile</u></p> <p>Item for geotextile shall be deemed to include cost of storage at site with necessary protection against exposure to direct sun</p> <p><u>High Strength Woven Geotextile</u></p> <p>Woven geotextile HS 300/50 or equivalent with minimum long term design strength of as separator</p>	m ²	2000		
B	F332	<p><u>Replacement of Unsuitable Material and/or Soft Soil</u></p> <p>Items for filling shall include filling earth in layers, compaction, and additional filling necessitated by settlement or penetration into underlying material as applicable</p> <p><u>Imported Suitable Material</u></p> <p>Imported suitable material from Contractor's own source with grading limits as per Specification to replace unsuitable material</p> <p>----- END OF GROUND TREATMENT WORKS-----</p>	m ³	1830		
C	F141	<p><u>RETAINING STRUCTURES</u></p> <p><u>EARTHWORK FOR RETAINING STRUCTURES</u></p> <p><u>Excavation For Foundation And Working Space</u></p> <p>Excavate in any material except rock to any depth for structural foundation</p>	m ³	410		

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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7 GEOTECHNICAL WORKS (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>RETAINING STRUCTURES (Cont'd)</u>				
		<u>PILING WORKS FOR FOUNDATION OF RETAINING STRUCTURES</u>				
		<u>Plant And Equipment</u>				
A	H110	Provision of all necessary piling plant and equipment, transportation to the site, handling, assembling, and removal of the site after completion of operation	sum			
B	H120	Moving and handling of all piling plant and equipment within the site and from location to location as often as is, and whenever necessary for the execution of the whole piling operation	sum			
C	H130	Provision of temporary staging for piling work	sum			
		<u>Precast Reinforced Concrete Piles (200mm x 200mm)</u>				
	H261	<u>Supply Length</u>				
D		Supply and deliver to site initial piles with shoes in 9m supplied length	nr	120		
E		Supply and deliver to site extension piles in 9m supplied length	nr	120		
	H262	<u>Driven</u>				
F		Handle, pitch and drive vertical piles	m	1080		
G		Handle, pitch and drive raked piles	m	1080		
	H264	<u>Lenghtening Piles By Jointing</u>				
H		Jointing with butt weld all round	nr	120		
	H266	<u>Cut-off</u>				
J		Cut-off piles	nr	120		
	H267	<u>Preparing heads</u>				
K		Preparing head of piles	nr	120		

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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7 GEOTECHNICAL WORKS (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>RETAINING STRUCTURES (Cont'd)</u>				
		<u>PILING WORKS FOR FOUNDATION OF RETAINING STRUCTURES (Cont'd)</u>				
		<u>Precast Reinforced Concrete Piles (200mm x 200mm) (Cont'd)</u>				
		<u>Pile Tests</u>				
		Rate for pile test deemed to include necessary equipments, inserts and accessories and others related works				
A	H510	<u>Static Load Test</u> Initial static load test (maintain load test) up to two times working load of 190kN (Test load of 380kN)	nr	1		
B	H520	<u>Pile Driving Analyser (PDA)</u> Pile Dynamic Analyzer (PDA) test	nr	6		
		<u>REINFORCED CONCRETE RETAINING WALL</u>				
		<u>Concrete Work</u>				
		<u>Formwork</u>				
		Rate for formwork shall be deemed to include the projections and intrusions and any temporary staging required				
C	I511	Rough finish for buried surfaces	m ²	600		
D	I514	Smooth finish for exposed surfaces	m ²	190		
		<u>Reinforcement</u>				
		Rate for reinforcement shall be deemed to include labour for cutting, bending and placing				
E	I625	<u>High tensile bars</u> Nominal diameter: 16 mm	t	35		

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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7 GEOTECHNICAL WORKS (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>RETAINING STRUCTURES (Cont'd)</u>				
		<u>REINFORCED CONCRETE RETAINING WALL (Cont'd)</u>				
		<u>Concrete Work (Cont'd)</u>				
		<u>In Situ Concrete Design Mix</u>				
A	I111	<u>Blinding Mass Concrete</u> Grade C12/15; 50mm thick to bases	m ²	410		
B	I142	<u>Reinforced Concrete</u> Grade C32/40	m ³	240		
		<u>Drainage Blanket</u>				
		<u>Compacted Gravel</u> 200mm thick 20mm single size aggregate as drainage blanket including Type 'A' non woven geotextile as filter	m ²	175		
		<u>Joints</u>				
D	I174	<u>Rubber Waterstop</u> 625mm wide PVC waterstop for construction joint as shown in Drawing	m	4		
		<u>Sub-Surface Drain</u>				
E	Q320	<u>PVC Pipe Drain</u> 100mm dia. PVC pipes at 1500mm centres wrapped with approved filter cloth	nr	206		

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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7 GEOTECHNICAL WORKS (CONT'D)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
A	N631	<p><u>RETAINING STRUCTURES (Cont'd)</u></p> <p><u>REINFORCED CONCRETE RETAINING WALL (Cont'd)</u></p> <p><u>Tar Paint</u></p> <p><u>Bituminous/Coal</u></p> <p>Protective coating shall be deemed to include preparation of surfaces, application of base primer/sealer required before painting and all necessary temporary staging</p> <p>The protective coating shall consist of a dual protective system formed by two coats of silane-siloxane based primer or equivalent and two coats of solvent based methacrylate pigmented or equivalent as the top coat</p> <p>Internal surfaces of retaining wall</p> <p>----- END OF RETAINING STRUCTURE WORKS-----</p>	m ²	285		
KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU					To Collection Page	

7 GEOTECHNICAL WORKS (CONT'D)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>IN-SITU CONCRETE PARAPET WALL</u>				
		<u>Concrete Work</u>				
		<u>Formwork</u>				
		Rate for formwork shall be deemed to include the projections and intrusions and any temporary staging required				
A	I514	Smooth finish for exposed surfaces	m ²	190		
		<u>Reinforcement</u>				
		Rate for reinforcement shall be deemed to include labour for cutting, bending and placing				
B	I625	<u>High tensile bars</u> Nominal diameter: 16 mm	t	6		
		<u>In Situ Concrete Design Mix</u>				
C	I175	<u>Reinforced Concrete</u> Grade C32/40	m ³	28		
D	Q434	<u>UPVC Pipe For Cable</u> 100mm diameter UPVC service duct in two (2) nos.	m	105		
		<u>HANDRAIL</u>				
E	L240	<u>Handrail and Post On New Jersey Parapet</u> Galvanised iron post and handrail at parapet and other accessories as shown in the drawing	m	105		

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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7 GEOTECHNICAL WORKS

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>COLLECTION</u>				
		<u>From Page</u>				
		7/1/7				
		7/2/7				
		7/3/7				
		7/4/7				
		7/5/7				
		7/6/7				
KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU					To "Ringkasan Tender"	

8.1 STRUCTURES - BRIDGE

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>TEMPORARY ROAD & TRAFFIC DIVERSION, ACCESS ROAD AND BRIDGE CROSSING</u>				
		Contractor shall propose the configuration, dimensions, material and method of construction of this temporary road and crossing and must seek approval from related agencies				
		Design and proposed shop drawing with endorsed by Professional Engineer with Practising Certificate (PEPC) to be submitted and approved by S.O				
		Rate not to include temporary traffic signs, barriers and barricades, temporary road markings, temporary traffic signals, and road lighting				
	A300	<u>Project Requirements</u>				
A	A371	<u>Temporary Road & Traffic Diversion</u> Design, supply, install and construct temporary road and traffic diversion for existing road as per specification and typical drawing	sum			
B	A353	<u>Routine Maintenance</u> Temporary road diversion; Routine maintenance	sum			
C	A354	<u>Periodic Maintenance</u> Temporary road diversion; Periodic maintenance	sum			
D	A360	<u>Clearance of Site Upon Completion</u> Remove upon completion; temporary road and traffic diversion; fixed charge includes reinstatement of the site	sum			
E	A374	<u>Temporary Bridge Crossing (Culvert)</u> Design, supply, install, construct, maintained and remove upon completion temporary precast box culvert as per specification and typical drawing	sum			
		----- END OF TEMPORARY WORKS-----				

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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8.1 STRUCTURES - BRIDGE (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>BRIDGE OVER SG. BOKOR</u>				
		<u>PILING WORKS</u>				
		<u>PLANT AND EQUIPMENT</u>				
A	H110	Provision of all necessary piling plant and equipment, transportation to the site, handling, assembling, and removal of the site after completion of operation	sum			
B	H120	Moving and handling of all piling plant and equipment within the site and from location to location as often as is, and whenever necessary for the execution of the whole piling operation	sum			
C	H130	Provision of temporary staging for piling work	sum			
	H210	<u>BORED PILES</u>				
		<u>900mm Diameter Bored Piles</u>				
D	H211	<u>Boring Vertical Holes</u> Bored piles; 900mm Ø boring in earth	m	330		
E		Bored piles; 900mm Ø drilling through hard soil layer (hard fragment) SPT > 50	m	30		
F	H213	<u>Casing</u> Bored piles; Drive and remove 12.7mm thick mild steel temporary casings	m	80		
G	H214	<u>High Tensile Reinforcement - Straight Bars</u> 32mm Diameter	t	18		
H	H215	<u>High Tensile Reinforcement - Helical Bars</u> 12mm Diameter	t	37		
J	H216	<u>Concrete Grade C32/40</u> Concrete of bored piles	m	360		

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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8.1 STRUCTURES - BRIDGE (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>BRIDGE OVER SG. BOKOR (Cont'd)</u>				
		<u>PILING WORKS (Cont'd)</u>				
	H210	<u>BORED PILES (Cont'd)</u>				
		<u>900mm Diameter Bored Piles (Cont'd)</u>				
A	H217	<u>Cutting of Pile Head</u> Bored piles; Cut-off piles	nr	10		
B	H218	<u>Preparing Heads</u> Bored piles; Preparing heads	nr	10		
	H500	<u>PILE TEST</u> Rate for pile test deemed to include necessary equipments, inserts and accessories and others related works				
C	H510	<u>Static/Maintained Load Test</u> Pile test; Initial static load test on 900mm Ø bored pile up to two times working load of 6,000 kN	nr	1		
D		Pile test; Subsequent static load test on 900mm Ø bored pile up to two times working load of 6,000 kN	nr	1		
E	H540 H540	<u>Sonic Logging Test</u> Pile test; Sonic logging test on 900mm Ø bored piles	nr	2		
		----- END OF PILING WORKS-----				

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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8.1 STRUCTURES - BRIDGE (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>BRIDGE OVER SG. BOKOR (Cont'd)</u>				
		<u>SUB STRUCTURE</u>				
		<u>ABUTMENTS</u>				
	A500	<u>CONTRACTOR'S REQUIREMENT</u>				
A	A560	<u>Mobilisation and demobilisation</u> Mobilisation and demobilisation; fixed charge to and from both river bank sand to access site area including all necessary works for the purpose of construction of the abutments and piers	sum			
B	A527	<u>Temporary Staging and Working Platform</u> Design, supply, install ,construct, maintaine and remove after completion temporary staging and working platform over Sg. Bokor; fixed charge including installation, handling, assembling and other related works for the purpose of construction of the abutments and piers	sum			
		<u>EARTHWORK</u>				
		<u>Cut and dispose</u>				
		Excavation in cut shall be deemed to include trimming and preparation of excavated surface and transportation from source to place of disposal				
C	F131	Excavate in earth material and dispose off-site at contractor dump site	m ³	93		
		<u>Filling</u>				
D	F342	General filling; Imported suitable material from Contractor's own sources	m ³	156		
		<u>GROUTED STONE PITCHING STEP</u>				
E	L240	<u>Handrail</u> Galvanised mild steel handrail and post and 1150mm width grouted stone pitching steps at abutment for inspection purposes as shown in the Drawing	m	9		
KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU					To Collection Page	

8.1 STRUCTURES - BRIDGE (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>BRIDGE OVER SG. BOKOR (Cont'd)</u>				
		<u>SUB STRUCTURE (Cont'd)</u>				
		<u>ABUTMENTS (Cont'd)</u>				
		<u>GABION</u>				
A	G211	<u>PVC Coated Wire Mesh Gabion Box</u> Gabion; 1.0 x 1.0 x 2.0m] rock-filled with PVC-coated hot dipped GI wire gauge size of 2.7mm with and including 50mm thick screed	m ³	144		
B	G212	<u>PVC Coated Wire Mesh Gabion Mattress Forming Slopes and Berms</u> Gabion mattress; 300mm thick rock-filled with PVC-coated hot dipped GI wire gauge size of 2.7mm forming slopes and berms with and including 150mm thick sand bedding	m ²	238		
		<u>SUBSURFACE DRAINS</u>				
C	Q310	<u>UPVC Perforated Pipe Subsoil Drain with Wrapping</u> Subsurface drains; 150mm diameter PVC perforated pipe including aggregate (20mm–40mm) wrapped with approved filter cloth	m	11		
		<u>PERMEABLE LAYER</u>				
D	R211	<u>Crushed Stone</u> 300mm thick permeable layer comprising of 20mm-40mm crushed stone as per Specification	m ²	24		
		<u>Bituminous Coating on Rough Surface</u>				
E	N691	Prepare and apply two (2) coats of bituminous to buried surfaces: rough concrete surfaces of class F1 of abutment and wingwalls	m ²	253		

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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8.1 STRUCTURES - BRIDGE (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>BRIDGE OVER SG. BOKOR (Cont'd)</u>				
		<u>SUB STRUCTURE (Cont'd)</u>				
		<u>ABUTMENTS (Cont'd)</u>				
		<u>CONCRETE WORK</u>				
		<u>In Situ Concrete Design Mix</u>				
		<u>Grade C12/15 Concrete</u>				
A	I111	<u>Lean concrete at permeable layer, approach slab, abutment and pile cap</u> 150mm Thick	m ²	7		
B		50mm Thick	m ²	80		
C	I174	<u>Grade C32/40 Concrete</u> At abutments, wingwall, parapet wall, approach slab and pile cap	m ³	130		
		<u>Formwork</u>				
		Rate for formwork shall be deemed to include the projections and intrusions and any temporary staging required				
D	I531	<u>Formwork at abutment, wingwall, parapet wall, approach slab and pile cap</u> F1: rough finish for buried surfaces	m ²	362		
E		F2: smooth finish for exposed surfaces	m ²	215		

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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8.1 STRUCTURES - BRIDGE (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>BRIDGE OVER SG. BOKOR (Cont'd)</u>				
		<u>SUB STRUCTURE WORK (Cont'd)</u>				
		<u>ABUTMENTS (Cont'd)</u>				
		<u>CONCRETE WORK (Cont'd)</u>				
		<u>Reinforcement</u>				
		<u>High Tensile Reinforcement for Abutment, Wing Walls, Parapet Wall, Approach Slab and Pile Cap</u>				
A	I624	Nominal diameter: 12 mm Ø (T12)	t	0.5		
B	I625	Nominal diameter: 16 mm Ø (T16)	t	19		
C	I626	Nominal diameter: 20 mm Ø (T20)	t	6		
	I717	<u>Dowel Bar (Sleeve and Capped)</u>				
D		Dowels bar; hot dip galvanised mild steel; 16mm dia. x 200mm long steel bars	nr	73		
		----- END OF SUB STRUCTURE WORKS-----				

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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8.1 STRUCTURES - BRIDGE (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>BRIDGE OVER SG. BOKOR (Cont'd)</u>				
		<u>SUPER STRUCTURE WORK</u>				
	A500	<u>CONTRACTOR'S REQUIREMENT</u>				
A	A560	<u>Mobilisation and demobilisation</u> Mobilisation and demobilisation; to and from both river banks and to access site area fixed charge including all plant, equipment and all necessary works for operation of beam launching	sum			
B	A527	<u>Temporary Staging and Working Platform</u> Design, supply, install ,construct, maintaine and remove after completion temporary staging and working platform over Sg. Bokor; fixed charge including installation, handling, assembling and other related works for the purpose of beam launching operation	sum			
		<u>PRESTRESSED BEAMS</u>				
	I430	<u>Pre-Tensioned Prestressed Beams</u> Item for precast concrete shall be deemed to include supply, erection, launching to its final position, machineries and all temporary works required as shown in the drawings Rate for prestressing shall be deemed to include tendon, ducts, jacking, grouting, anchorage and other components and tasks ancillary to prestressing				
C		Precast pre-tensioned beam, M-beam 20m long as per Drawing and Specification	nr	10		
D	I717	<u>Dowel Bar (Sleeve and Capped)</u> Galvanised H.Y.S dowels bars with capping; T32mm diameter x 600mm long with 42mm diameter dowel cap	nr	20		

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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8.1 STRUCTURES - BRIDGE (CONT'D)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>BRIDGE OVER SG. BOKOR (Cont'd)</u>				
		<u>SUPER STRUCTURE WORK (Cont'd)</u>				
		<u>DECK SLAB, DIAPHRAGM & PARAPET WALL</u>				
		<u>CONCRETE WORK</u>				
		<u>In Situ Concrete Design Mix</u>				
A	I178	<u>Grade C32/40 Concrete</u> At deck slab, diaphragm and parapet wall	m ³	52		
		<u>Formwork</u>				
B	I531	<u>Formwork at deck slab, diaphragm and parapet wall</u> F2: Fair finish to deck slabs and diaphragm	m ²	11		
C	I525	<u>Permanent formwork at deck slab</u> F3:Smooth finish to 25mm thick cement board permanent formwork as shown in Drawing including all temporary strut or bracings	m ²	94		
		<u>Reinforcement</u>				
D	I625	<u>High Tensile Reinforcement for deck slab, diaphragm and parapet wall</u> Nominal diameter: 16 mm Ø (T16)	t	13		
E	I626	Nominal diameter: 20 mm Ø (T20)	t	0.6		
		<u>HANDRAIL</u>				
F	L240	<u>Handrail and Post On New Jersey Parapet</u> Galvanised cast iron post and handrail at parapet and other accessories as shown in the drawing	m	40		

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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8.1 STRUCTURES - BRIDGE (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>BRIDGE OVER SG. BOKOR (Cont'd)</u>				
		<u>SUPER STRUCTURE WORK (Cont'd)</u>				
		<u>DECK SLAB, DIAPHRAGM & PARAPET WALL (Cont'd)</u>				
		<u>BRIDGE BEARING</u>				
		Supply and install the following bearings inclusive of mortar grout, epoxy mortar and all temporary work				
A	V415	<u>Laminated Elastomeric Bearings</u> 350mm x 275mm x 70mm thick elastomeric bearing pad with 6 nos. of 334mm x 269mm x 3mm thick mild steel plate and 7 elastomer layer complete with 15mm thick epoxy resin mortar on RC plinth all accordance as per Drawing	nr	20		
B	A322	<u>Testing Of Bearing</u> Testing of materials; 350mm x 275mm x 70mm thick Laminated Elastomeric bearings all in accordance specification	nr	2		
		<u>MISCELLANEOUS WORK</u>				
C	I715	<u>Joints To Parapet Wall / Approach Slab</u> Joint filler or joint sealant, 25mm wide to approach slabs	m	22		
D		Joint sealant all round, 75mm wide to parapets.	m	2		
E	V320	<u>Brass Plaque</u> Brass plaque 420mm x 300mm x 3.2mm thick as shown on the drawing	nr	1		

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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8.1 STRUCTURES - BRIDGE (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>BRIDGE OVER SG. BOKOR (Cont'd)</u>				
		<u>SUPER STRUCTURE WORK (Cont'd)</u>				
		<u>DECK SLAB, DIAPHRAGM & PARAPET WALL (Cont'd)</u>				
		<u>MISCELLANEOUS WORK (Cont'd)</u>				
		<u>PROTECTIVE COATING FOR DURABILITY AND AESTHETICAL SURFACE COATING</u>				
		Protective coating shall be deemed to include preparation of surfaces, application of base primer/sealer required before painting and all necessary temporary staging				
		The protective coating shall consist of a dual protective system formed by two coats of silane-siloxane based primer or equivalent and two coats of solvent based methacrylate pigmented or equivalent as the top coat				
A	N331	<u>Smooth Surface</u> Smooth surfaces; Surfaces of members exceeding 300mm girth; exposed surfaces of beams, diaphragms and parapets	m ²	666		
B		Smooth surfaces; Surfaces of members exceeding 300mm girth; exposed surfaces of abutments and piers above water	m ²	180		
		<u>SUBSURFACE DRAINS</u>				
C	Q320	<u>UPVC Outlet Drain</u> Subsurface drains; 100mm diameter UPVC drain pipe	m	10		
		<u>CABLING WORKS</u>				
D	Q434	<u>UPVC For Street Lighting Cable At Parapet</u> 100mm diameter UPVC service duct in two (2) nos.	m	40		

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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8.1 STRUCTURES - BRIDGE (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>COLLECTION</u>				
		<u>From Page</u>				
		8.1/1/12				
		8.1/2/12				
		8.1/3/12				
		8.1/4/12				
		8.1/5/12				
		8.1/6/12				
		8.1/7/12				
		8.1/8/12				
		8.1/9/12				
		8.1/10/12				
		8.1/11/12				
KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU					To "Ringkasan Tender"	

8.1/12/12

8.2 STRUCTURES - ELEVATED STRUCTURES

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>ELEVATED STRUCTURES</u>				
		<u>PILING WORKS</u>				
		<u>PLANT AND EQUIPMENT</u>				
A	H110	Provision of all necessary piling plant and equipment, transportation to the site, handling, assembling, and removal of the site after completion of operation	sum			
B	H120	Moving and handling of all piling plant and equipment within the site and from location to location as often as is, and whenever necessary for the execution of the whole piling operation	sum			
C	H130	Provision of temporary staging for piling work	sum			
	H270	<u>PRECAST PRESTRESSED CONCRETE SPUN PILE</u>				
		<u>600mm Diameter PC Spun Piles (Class : C)</u>				
	H271	<u>Supply Length</u>				
D		Supply and deliver to site initial piles with shoes in 12m supplied length	nr	92		
E		Supply and deliver to site extension piles in 12m supplied length	nr	92		
F		Supply and deliver to site extension piles in 6m supplied length	nr	92		
	H272	<u>Driven</u>				
G		Handle, pitch and drive vertical piles	m	2760		
	H274	<u>Lenghtening Piles By Jointing</u>				
H		Jointing with butt weld all round	nr	184		
	H275	<u>In Situ Concrete - in pile hollow section</u>				
J		Filling hollow piles with concrete Grade C16/20 shall be deemed to include reinforcement and mild steel plate (pile plug) as stated in the Preambles	nr	92		
	H276	<u>Cutting of Pile Head</u>				
K		Cut-off piles	nr	92		
	H277	<u>Preparing heads</u>				
L		Preparing head of piles	nr	92		

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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8.2 STRUCTURES - ELEVATED STRUCTURES (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>ELEVATED STRUCTURES (Cont'd)</u>				
		<u>PILING WORKS (Cont'd)</u>				
	H270	<u>PRECAST PRESTRESSED CONCRETE SPUN PILE (Cont'd)</u>				
		<u>600mm Diameter PC Spun Piles (Class : C) (Cont'd)</u>				
	H500	<u>PILE TEST</u>				
		Rate for pile test deemed to include necessary equipments, inserts and accessories and others related works				
	H510	<u>Static/Maintained Load Test</u>				
A		Initial static load test (maintain load test) up to two times working load of 1400kN (Test load of 2800kN)	nr	1		
B		Subsequent static load test (maintain load test) up to two times working load of 1400kN (Test load of 2800kN)	nr	1		
	H520	<u>Pile Driving Analyser (PDA)</u>				
C		Pile Dynamic Analyzer (PDA) test	nr	6		
	H540	<u>Sonic Logging Test</u>				
D		Sonic logging test	nr	14		
		----- END OF PILING WORKS-----				

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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8.2 STRUCTURES - ELEVATED STRUCTURES (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>ELEVATED STRUCTURES (Cont'd)</u>				
		<u>SUB STRUCTURE WORK</u>				
		<u>ABUTMENTS AND PIER</u>				
	A500	<u>CONTRACTOR'S REQUIREMENT</u>				
A	A560	<u>Mobilisation and demobilisation</u> Mobilisation and demobilisation; fixed charge to access site area including all necessary works for the purpose of construction of the abutments and piers	sum			
B	A527	<u>Temporary Staging and Working Platform</u> Design, supply, install ,construct, maintaine and remove after completion temporary staging and working platform; fixed charge including installation, handling, assembling and other related works for the purpose of construction of the abutments and piers	sum			
		<u>EARTHWORK</u>				
		<u>Cut and dispose</u>				
		Excavation in cut shall be deemed to include trimming and preparation of excavated surface and transportation from source to place of disposal				
C	F131	Excavate in earth material and dispose off-site at contractor dump site	m ³	19		
D	F342	<u>Filling</u> General filling; Imported suitable material from Contractor's own sources	m ³	1900		
		<u>GROUTED STONE PITCHING STEP</u>				
E		<u>Handrail</u> Galvanised mild steel handrail and post and 1150mm width grouted stone pitching steps at abutment for inspection purposes as shown in the Drawing	m	6		
KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU					To Collection Page	

8.2 STRUCTURES - ELEVATED STRUCTURES (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>ELEVATED STRUCTURES (Cont'd)</u>				
		<u>SUB STRUCTURE WORK (Cont'd)</u>				
		<u>ABUTMENTS AND PIER (Cont'd)</u>				
		<u>SUBSURFACE DRAINS</u>				
A	Q310	<u>PVC Perforated Pipe Subsoil Drain with Wrapping</u> Subsurface drains; 150mm diameter PVC perforated pipe including aggregate (20mm–40mm) wrapped with approved filter cloth	m	21		
		<u>PERMEABLE LAYER</u>				
B	R211	<u>Crushed Stone</u> 300mm thick permeable layer comprising of 20mm-40mm crushed stone as per Specification	m ²	42		
		<u>Bituminous Coating on Rough Surface</u>				
C	N691	Prepare and apply two (2) coats of bituminous to buried surfaces: rough concrete surfaces of class F1 of abutment and wingwalls	m ²	727		
		<u>CONCRETE WORK</u>				
		<u>In Situ Concrete Design Mix</u>				
		<u>Grade C12/15 Concrete</u>				
D	I111	<u>Lean concrete at permeable layer, abutment and pile cap</u> 150mm Thick	m ²	6		
E		50mm Thick	m ²	230		
F	I172	<u>Grade C32/40 Concrete</u> At abutments, wingwall, parapet wall and pile cap	m ³	480		

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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8.2 STRUCTURES - ELEVATED STRUCTURES (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>ELEVATED STRUCTURES (Cont'd)</u>				
		<u>SUB STRUCTURE WORK (Cont'd)</u>				
		<u>ABUTMENTS AND PIER (Cont'd)</u>				
		<u>CONCRETE WORK (Cont'd)</u>				
		<u>Formwork</u>				
		Rate for formwork shall be deemed to include the projections and intrusions and any temporary staging required				
	I531	<u>Formwork at abutment, wingwall, parapet wall and pile cap</u>				
A		F1: rough finish for buried surfaces	m ²	281		
B		F2: smooth finish for exposed surfaces	m ²	2280		
		<u>Reinforcement</u>				
		<u>High Tensile Reinforcement for Abutment, Wing Walls, Parapet Wall and Pile Cap</u>				
C	I624	Nominal diameter: 12 mm Ø (T12)	t	8		
D	I625	Nominal diameter: 16 mm Ø (T16)	t	45		
E	I626	Nominal diameter: 20 mm Ø (T20)	t	5		
F	I1627	Nominal diameter: 25 mm Ø (T25)	t	18		
G	I628	Nominal diameter: 32 mm Ø or bigger	t	2		
	I717	<u>Dowel Bar (Sleeve and Capped)</u>				
H		Dowels bar; hot dip galvanised mild steel; 16mm dia. x 200mm long steel bars	nr	84		
		----- END OF SUB STRUCTURE WORKS-----				

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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8.2 STRUCTURES - ELEVATED STRUCTURES (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>ELEVATED STRUCTURES (Cont'd)</u>				
		<u>SUPER STRUCTURE WORK</u>				
	A500	<u>CONTRACTOR'S REQUIREMENT</u>				
A	A527	<u>Temporary Staging and Working Platform</u> Design, supply, install ,construct, maintaine and remove after completion temporary staging and working platform; fixed charge including installation, handling, assembling and other related works for the purpose of beam launching operation	sum			
		<u>CONCRETE WORK</u>				
		<u>In Situ Concrete Design Mix</u>				
B	I174	<u>Grade C32/40 Concrete</u> At piers, tie beam and deck slab	m ³	1220		
		<u>Formwork</u>				
		Rate for formwork shall be deemed to include the projections and intrusions and any temporary staging required				
C	I531	<u>Formwork at approach slab, tie beam and pier</u> F2: smooth finish for exposed surfaces	m ²	4516		
		<u>Reinforcement</u>				
		<u>High Tensile Reinforcement for Approach Slab, Pier and Tie Beam</u>				
D	I625	Nominal diameter: 16 mm Ø (T16)	t	160		
E	I626	Nominal diameter: 20 mm Ø (T20)	t	50		
F	I1627	Nominal diameter: 25 mm Ø (T25)	t	94		

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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8.2 STRUCTURES - ELEVATED STRUCTURES (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>ELEVATED STRUCTURES (Cont'd)</u>				
		<u>SUPER STRUCTURE WORK (Cont'd)</u>				
		<u>HANDRAIL</u>				
A	L240	<u>Handrail and Post On New Jersey Parapet</u> Galvanised cast iron post and handrail at parapet and other accessories as shown in the drawing	m	40		
		<u>MISCELLANEOUS WORK</u>				
B	I715	<u>Joints To Parapet Wall / Approach Slab</u> Joint filler or joint sealant, 25mm wide to approach slabs	m	21		
C		Joint sealant all round, 75mm wide to parapets.	m	2		
D	V320	<u>Brass Plaque</u> Brass plaque 420mm x 300mm x 3.2mm thick as shown on the drawing	nr	1		
		<u>PROTECTIVE COATING FOR DURABILITY AND AESTHETICAL SURFACE COATING</u>				
		Protective coating shall be deemed to include preparation of surfaces, application of base primer/sealer required before painting and all necessary temporary staging				
		The protective coating shall consist of a dual protective system formed by two coats of silane-siloxane based primer or equivalent and two coats of solvent based methacrylate pigmented or equivalent as the top coat				
E	N331	<u>Smooth Surface</u> Smooth surfaces; Surfaces of members exceeding 300mm girth; exposed surfaces of beams, diaphragms and parapets	m ²	660		

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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8.2 STRUCTURES - ELEVATED STRUCTURES (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>ELEVATED STRUCTURES (Cont'd)</u>				
		<u>SUPER STRUCTURE WORK (Cont'd)</u>				
		<u>SUBSURFACE DRAINS</u>				
A	Q310	<u>UPVC Outlet Drain Drain</u> Subsurface drains; 100mm diameter UPVC drain pipe	m	114		
		<u>CABLING WORKS</u>				
B	Q434	<u>UPVC For Street Lighting Cable At Parapet</u> 100mm diameter UPVC service duct in two (2) nos.	m	340		

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8.2 STRUCTURES - ELEVATED STRUCTURES (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>COLLECTION</u>				
		<u>From Page</u>				
		8.2/1/9				
		8.2/2/9				
		8.2/3/9				
		8.2/4/9				
		8.2/5/9				
		8.2/6/9				
		8.2/7/9				
		8.2/8/9				
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9 TRAFFIC MANAGEMENT AND CONTROL

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
A	C100	<u>TRAFFIC MANAGEMENT PLAN</u> Traffic Management Plan and the associated work shall be in accordance with the latest version of Specification for Road Works : Section 19				
	C120	Preparation of Traffic Management Plan including Emergency Response Plan (ERP). Rate to include the cost of any survey required, literature, references, consultations, and the production of the document. It shall also include the cost for the engagement of Qualified Traffic Engineer with experience in road construction required for carrying out the respective study and the preparation of the Traffic Management Plan	sum			
	C130	<u>TRAFFIC MANAGEMENT TEAM (TMT) / EMERGENCY RESPONSE TEAM (ERT)</u> Traffic Management Team (TMT) / Emergency Response Team (ERT) shall be in accordance with the latest version Specification for Road Works : Section 19				
B	C133	<u>Appointment of Qualified and Trained TMT</u> Supervisor	man-mth	4		
C	C139.1	Traffic controller; Flagman - 3 person	man-mth	12		

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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9 TRAFFIC MANAGEMENT AND CONTROL (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
	C200	<u>TEMPORARY ROAD FURNITURE</u> Items for temporary road furniture shall be deemed to include the supply, installation, maintenance and removal upon completion. The supply of temporary road furniture shall be deemed to include base preparation, cost of materials, fabrication, and fixing including posts, struts, bolts and nuts, base, storage and transportation. Installation of temporary road furniture shall be deemed to include cost for multiple shifting within the contractual boundaries and its vicinities that is affected by the traffic management plan. Temporary road furniture shall be deemed to include cost for the inspection, immediate repair and replacement of any damaged, missing or stolen items throughout the duration of the construction, and removal upon completion.				
	C210	<u>Temporary traffic signs</u> Temporary traffic signs shall be in accordance with Specification for Road Works: Section 19				
	C211	<u>Non-Illuminated Retro-Reflective Sheeting</u>				
A	C211.1	Portable florescence orange prismatic retro-reflective sheeting not exceeding 1.0m2	nr	15		
B	C211.2	Portable florescence orange prismatic retro-reflective sheeting exceeding 1.0 but not exceeding 2.0m2	nr	10		
	C220	<u>Barriers and Barricades</u>				
C	C229	Light Weight Movable Plastic Hoarding	nr	20		
KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU					To Collection Page	

9 TRAFFIC MANAGEMENT AND CONTROL (CONT'D)**(PROVISIONAL QUANTITY)**

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
	C200	<u>TEMPORARY ROAD FURNITURE (Cont'd)</u>				
		Items for temporary road furniture..... (Cont'd)				
	C230	<u>Delineators</u>				
A	C231.1	Portable traffic guidance cones with reflective bands	nr	75		
B	C232	Double-sided reflective string delineators	m	200		
C	C233.1	Battery operated flashing arrows	nr	2		
D	C235.1	Battery operated polycarbonate lens blinkers	nr	60		
	C240	<u>Temporary Road Markings</u>				
		Removal the unwanted road markings shall be removed from the pavement in such a way so as to avoid any possible confusion of motorist especially in wet conditions				
		All temporary road marking that more than one (1) month shall be of thermoplastic type. The rate include removal temporary road marking upon completion as per specification				
E	C242.1	150 mm width Edge line	m	350		
F	C242.2	100 mm width Centre line	m	175		
	C300	<u>TRAFFIC MANAGEMENT REPORT</u>				
G	C310	Submission 6 sets of Traffic Management Safety Report once in every 3 months (quarterly). Rate to include the cost of any survey required, literatures, references, consultations, and the production of the document	sum			

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9 TRAFFIC MANAGEMENT AND CONTROL (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<p><u>COLLECTION</u></p> <p><u>From Page</u></p> <p>9/1/4</p> <p>9/2/4</p> <p>9/3/4</p>				
<p>KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU</p>					<p>To "Ringkasan Tender"</p>	

10 ENVIRONMENTAL PROTECTION & ENHANCEMENT WORK (PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>NON-PHYSICAL WORKS</u>				
		<u>ENVIRONMENTAL MANAGEMENT PLAN (EMP)</u>				
		Preparation of EMP shall be deemed to include the cost of any survey required, literature, references, consultation and the production of the documents. It shall also include the cost for the engagement of registered environmental consultant required for carrying out the preparation of the said report in accordance with Department Of Environment (DOE) Guidelines:				
A	B110	Preparation, submission and approval of EMP by environmental consultant registered with DOE including : a) Land-Disturbing Pollution Prevention and Mitigation Measures (LD-P2M2) b) Erosion and Sediment Control Plan c) Any other plan required* * if applicable	sum			
		<u>APPOINTMENT OF ENVIRONMENTAL OFFICER (E.O.)</u>				
B	B120	Provision of a full time environmental officer (E.O.) for environmental management works only, throughout the contract period for the implementation of EIA / PMM / non-EIA projects. For Non-EIA Project* E.O. shall have a degree in Civil Engineering or Environmental Science with minimum three (3) years of related experience in environmental management works and must be certified as CESSWI/CISEC/CePSWaM or equivalent	man-mth	24		

KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU

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**10 ENVIRONMENTAL PROTECTION & ENHANCEMENT
WORK (CONT'D)**

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>NON-PHYSICAL WORKS (Cont'd)</u>				
		<u>WATER QUALITY CONTROL AND MONITORING</u>				
		<u>Water Quality Sampling and In Situ Testing</u>				
		Water quality testing shall be deemed to include testing by accredited laboratory :				
A	B349.1	Conduct in-situ monthly river/stream/other waterbody quality monitoring as specified and as shown in the drawing for the following parameters or as directed by the S.O throughout the contract period	sum			
B	B349.2	Conduct in-situ monthly water quality monitoring of the effluent discharge at accommodation, workshop and canteen area as specified for the following parameters or as directed by the S.O. throughout the contract period	sum			
		<u>Water Quality Sampling and Laboratory Testing</u>				
		Water quality testing shall be deemed to include testing by accredited laboratory :				
C	B359.1	Conduct monthly river/stream/other water body quality monitoring as specified and as shown in the drawing for the following parameters or as directed by the S.O. throughout the contract period	sum			
D	B359.2	Conduct monthly water quality monitoring of the effluent discharge at accommodation, workshop and canteen area as specified for the following parameters or as directed by the S.O. throughout the contract period	sum			
E	B359.3	Conduct monthly water quality monitoring at the discharge outlet of silt trap, sediment pond, sediment basin as specified for Total Suspended Solids (TSS) and Turbidity or as directed by the S.O. throughout the contract period	sum			
KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU					To Collection Page	

**10 ENVIRONMENTAL PROTECTION & ENHANCEMENT
WORK (CONT'D)**

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>NON-PHYSICAL WORKS (Cont'd)</u>				
		<u>AIR QUALITY CONTROL AND MONITORING</u>				
		<u>Air Quality Sampling</u>				
		Air quality sampling shall be deemed to include testing by accredited laboratory				
A	B459	Conduct monthly air quality monitoring for Particulate Matter (PM ₁₀), Particulate Matter (PM _{2.5}), NO ₂ , SO ₂ , CO and O ₃ for 24-hour period including wind velocity and direction as specified throughout the contract period. All equipment or generator set that produce heat and power shall be monitored for NO ₂ and CO periodically	sum			
		<u>NOISE AND VIBRATION CONTROL AND MONITORING</u>				
		<u>Noise Level Measurement</u>				
		Noise level measurement shall be deemed to include monitoring by accredited laboratory				
B	B539	Conduct quarterly noise level monitoring for a representative sample of locations, existing noise zones; identification of the major sources of sound including LAeq, L ₁₀ , L ₉₀ , L _{min} and L _{max} as specified or as shown in drawing or as directed by the S.O throughout the contract period for	sum			
		<u>Vibration Measurement</u>				
		<u>Vibration measurement shall be deemed to include monitoring by accredited laboratory</u>				
C	B541	Conduct vibration monitoring as specified or as required throughout the contract period; Ground vibration monitoring	sum			
KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU					To Collection Page	

**10 ENVIRONMENTAL PROTECTION & ENHANCEMENT
WORK (CONT'D)**

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>NON-PHYSICAL WORKS (Cont'd)</u>				
		<u>ENVIRONMENTAL MONITORING REPORT</u>				
		Preparation of five (5) hardcopy and five (5) softcopy (per month)of the following report in accordance with DOE/EPD/JKR Malaysia requirement throughout the contract period				
A	B810	Monthly environmental monitoring report (EMR) / environmental compliance report (ECR), including aerial view photo or video (if applicable)	sum			
		<u>ENVIRONMENTAL AUDIT</u>				
		This audit where applicable shall be in accordance with DOE requirements:				
B	B820	Conduct quarterly 3rd party audit as specified including preparation of five (5)copies of Environmental Audit Report (per audit) throughout the contract period	sum			
C	B830	Conduct an environmental closure audit prior to issuance of certificate of practical completion including preparation of five (5) copies of the report	sum			
D	B850	Conduct audit prior to commencement of construction works	sum			

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**10 ENVIRONMENTAL PROTECTION & ENHANCEMENT
WORK (CONT'D)**

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>PHYSICAL WORKS</u>				
		<u>DUST AND MUD CONTROL</u>				
A	B410	<u>Tyre Washing Facilities</u> Tyre washing facilities; Provision, operation and maintenance of portable water jet including operator, water tank and other necessary equipments as specified for carrying out cleaning of vehicle tyres at various exits of the worksites or as directed by the S.O./P.D.*	Set	1		
B	B430	<u>Water Browser Truck</u> Water browser truck; Provision, operation and maintenance of browser truck including operator, pumping of water, water tank and other necessary equipments as specified for carrying out water spraying along haul/access roads, existing roads and near settlements or as directed by the S.O./P.D.*	nr	1		
		<u>SURFACE RUN-ON OR RUN-OFF CONTROL</u>				
C	B210	<u>Silt Fence</u> Construction of 1.0m high silt fence including non-woven geotextile and wooden post with dimension as specified and as per drawing or as directed by the S.O.	m	120		
D	B230	<u>Sand Bag</u> Supply and lay gunny sack (or equivalent) size (350-500mm x 600-700mm) filled with sand as specified and as shown in the drawing or as directed by the S.O.	nr	200		
		<u>SEDIMENT CONTROL</u>				
E	B272.1	<u>Silt Trap</u> Sand bedding for silt traps	m ³	10		
F	B272.2	Stone filling at inlet and outlet	m ³	10		
G	B272.3	Aggregate filling including geotextile	m ³	10		
KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU					To Collection Page	

**10 ENVIRONMENTAL PROTECTION & ENHANCEMENT
WORK (CONT'D)**

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>PHYSICAL WORKS (Cont'd)</u>				
		<u>MAINTENANCE</u>				
		Items for maintenance shall be deemed to include disposal of accumulated debris, sediment and silt to an approved site, unless otherwise stated				
A	B281	Silt fence	sum			
B	B283	Sand bags	sum			
C	B287	Silt trap	sum			
		<u>FUEL SPILLAGE MANAGEMENT</u>				
		<u>Skid Tank Bund</u>				
D	B310	Construct impervious concrete base as per drawing to contain 110% volume of stored fuel including grease trap and shall be deemed to include traps , oil and grease separators, and its maintenance and removal upon completion	sum			
		<u>WASTE MANAGEMENT</u>				
		Item for scheduled waste shall be deemed to include storage, labelling and transportation from site by a licensed contractor for disposal as per Department of Environment (DOE) Regulation:				
E	B610	Scheduled wastes storage as per drawing and disposal	sum			
F	B620	Household solid waste separation, storage/Mobile Garbage Bin (MGB) and disposal	sum			
G	B630	Construction solid waste separation, storage / Roll - on Roll - off (RORO) and disposal	sum			
H	B690	Provision and maintenance of grease traps at kitchen and accommodation areas, site office, workshop and scheduled waste storage	nr	3		

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10 ENVIRONMENTAL PROTECTION & ENHANCEMENT WORK (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
A	B930	<p><u>PHYSICAL WORKS (Cont'd)</u></p> <p><u>WASTE MANAGEMENT (Cont'd)</u></p> <p>Item for scheduled waste shall be (Cont'd)</p> <p><u>Management Of Disposal Site For Surplus Materials</u></p> <p>Item coverage shall be deemed to include all necessary works as mentioned in the 'Instruction to contractors on disposal of surplus cut material' drawing and 'Surplus material disposal embankment' drawing</p>	sum			
<p>KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU</p>					To Collection Page	

10 ENVIRONMENTAL PROTECTION & ENHANCEMENT WORK (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<p><u>COLLECTION</u></p> <p><u>From Page</u></p> <p>10/1/8</p> <p>10/2/8</p> <p>10/3/8</p> <p>10/4/8</p> <p>10/5/8</p> <p>10/6/8</p> <p>10/7/8</p>				
<p>KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU</p>					<p>To "Ringkasan Tender"</p>	

11 ROUTINE MAINTENANCE WORKS

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<p><u>ROUTINE MAINTENANCE ACTIVITIES DURING CONSTRUCTION PERIOD</u></p> <p><u>MAINTAIN THE EXISTING ROAD</u></p> <p>Provision of all labour, equipments, tools, material, transport and whatever necessary to all the works stated below as per standard JKR road specification:</p> <p><u>Maintenance of Pavement Surface</u></p> <p>The works shall comprise of :</p> <p>a) Patching of potholes to be commenced immediately within a day</p> <p>b) Treatment/sealing of surface cracks</p> <p>c) Reinstate edge deterioration of back filled trenches</p> <p>d) Treatment to stripping of aggregate</p> <p>e) Treatment for rutting</p> <p>f) Treatment to deterioration of concrete pavement surface</p> <p>g) Repair to concrete pavement joints</p> <p>h) Repair to paving blocks and slabs</p>	km-mth	0.5		
B	A351.2	<p><u>Maintenance of Road Shoulder</u></p> <p>The works shall comprise of :</p> <p>a) Re-grading and clearing of vegetation.</p> <p>b) Topping up of shoulder with suitable filling material.</p> <p>c) Filling of irregularities in unsealed shoulders.</p> <p>d) Filling of pavement/shoulder level differences.</p> <p>e) Clear vegetation on paved shoulder.</p>	km-mth	0.5		
C	A351.3	<p><u>Grass Cutting</u></p> <p>The works shall comprise grass cutting, disposal of cut grass and debris. The frequency of grass cutting shall be carried out once a month. The limit and extent as described below :</p> <p>a) Road shoulder (both side)</p> <p>b) Slope area (both side)</p> <p>c) Berm drain, interceptor drain and all other types of drain on slopes (both side)</p> <p>d) Median (both side)</p> <p>e) Clear vegetation on paved surface (both side)</p>	km-mth	0.5		

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11 ROUTINE MAINTENANCE WORKS (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>ROUTINE MAINTENANCE ACTIVITIES DURING CONSTRUCTION PERIOD (Cont'd)</u>				
		<u>MAINTAIN THE EXISTING ROAD (Cont'd)</u>				
		Provision of all labour, equipments,..... (Cont'd)				
		<u>Road Furnitures</u>				
A	A351.4	The works shall comprise of cleaning works and shall be carried out 4 cycles/year of cleaning of : a) Guardrails and barriers b) Signages and posts c) Kilometer post and delineator post d) Traffic signal aspects	cycle	8		
		<u>Drainage</u>				
B	A351.8	The works shall comprise of cleaning debris, desilting and repair works and shall be carried out 4 cycles/year: a) Debris in lined drains. b) Debris in unlined drains. c) Debris in sump. d) Debris in culverts. e) Repair to damaged drains and sumps. f) Repair to misaligned unlined drains.	cycle	8		
		<u>Litter Collection and Disposal of Minor Obstruction/Debris</u>				
C	A351.9	The works shall comprise of all the works stated below and to the satisfaction of the S.O.:- a) Litter collection and disposal and shall be carried out as and when required b) Removal and disposal of loose material and debris as and when required b) Removal and disposal of carcass as and when required	sum			
KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU					To Collection Page	

11 ROUTINE MAINTENANCE WORKS (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
A		<p><u>ROUTINE MAINTENANCE ACTIVITIES DURING DEFECTLIABILITY PERIOD</u></p> <p><u>MAINTAIN THE COMPLETED ROAD</u></p> <p>Provision of all labour, equipments, tools, material, transport and whatever necessary to all the works stated below as per standard JKR road specification:</p> <p><u>Grass Cutting</u> The works shall comprise grass cutting, disposal of cut grass and debris. The frequency of grass cutting shall be carried out once a month. The limit and extent as described below :</p> <p>a) Road shoulder (both side) b) Slope area (both side) c) Berm drain, interceptor drain and all other types of drain on slopes (both side) d) Median (both side) e) Clear vegetation on paved surface (both side)</p>	km-mth	0.3		
B	A359.2	<p><u>Road Furnitures</u> The works shall comprise of cleaning works and shall be carried out 4 cycles/year of cleaning of :</p> <p>a) Guardrails and barriers b) Signages and posts c) Kilometer post and delineator post d) Traffic signal aspects</p>	cycle	4		
C	A359.3	<p><u>Bridges and Culverts</u> The works shall comprise of cleaning works and shall be carried out 4 cycles/year of cleaning of :</p> <p>a) Expansion joints. b) Weep holes. c) Parapets. d) Bearing shelves. e) Grafiti and markings. f) Waterway or culvert opening and bridge carriageway g) Removal of vegetation and lubricating and greasing operation for steel bearings. h) Water down pipe.</p>	cycle	4		

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11 ROUTINE MAINTENANCE WORKS (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>ROUTINE MAINTENANCE ACTIVITIES DURING DEFECTLIABILITY PERIOD (Cont'd)</u>				
		<u>MAINTAIN THE COMPLETED ROAD (Cont'd)</u>				
		Provision of all labour, equipments,..... (Cont'd)				
		<u>Drainage</u>				
A	A359.4	The works shall comprise of cleaning debris and desilting works and shall be carried out 4 cycles/year : a) Debris in lined drains b) Debris in unlined drains c) Debris in sump d) Debris in culverts e) Blocked gratings	cycle	4		
		<u>Litter Collection and Disposal of Minor Obstruction/Debris</u>				
B	A359.5	The works shall comprise of all the works stated below and to the satisfaction of the S.O.:- a) Litter collection and disposal and shall be carried out as and when required b) Removal and disposal of loose material and debris as and when required b) Removal and disposal of carcass as and when required	sum			
		<u>Landscaping</u>				
C	A359.6	Items for maintaining all landscaping shall be deemed to include digging, planting media, bedding, staking, protection, watering, weeding, required fertilising and replacement of dead item until the vegetation is established The works shall comprise of :- a) Watering at every alternate day. b)Cutting and trimming and shall be carried out once a month. c)Weeding, fertilising, insect pest and disease control, pruning and mulching shall be carried out once a month	km-mth	4		
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11 ROUTINE MAINTENANCE WORKS (CONT'D)

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<p style="text-align: center;"><u>COLLECTION</u></p> <p style="text-align: center;"><u>From Page</u></p> <p style="text-align: center;">11/1/5</p> <p style="text-align: center;">11/2/5</p> <p style="text-align: center;">11/3/5</p> <p style="text-align: center;">11/4/5</p>				
KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU					To "Ringkasan Tender"	

12 OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT

(PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>PLANNING FOR SAFETY & HEALTH MANAGEMENT SYSTEM</u>				
A	A411.1	Prepare and submit safety and health plan (S-plan) as per latest Specifications For Occupational Safety And Health In Engineering Construction Works	nr	1		
B	A414	Prepare and submit monthly safety & health report as per latest Specifications For Occupational Safety And Health In Engineering Construction Works.(Five (5) copies per month)	nr	24		
		<u>RESOURCES FOR SITE SAFETY</u>				
C	A412.2	Employment of a Site Safety & Health Supervisor (SSS)and to the satisfaction of the S.O for the entire duration of the construction period to be stationed minimum 15 hours a week at the site	man-mth	24		
		<u>PROTECTIVE EQUIPMENT</u>				
	A413	<u>Personal Protective Equipment to S.O. Staffs</u> <i>Provision and maintenance of Personal Protective Equipment to S.O staffs at Site of adequate quantity and of approved quality.The equipment shall include but not be limited to the following:</i>				
D		Safety boots.	nr	10		
E		Safety helmets	nr	10		
F		Protective Gloves	nr	10		
G		Safety jackets of reflective type	nr	10		
H		Ear plugs and muffs	nr	10		
J		Dust masks	nr	10		
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12 OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT (CONT'D) (PROVISIONAL QUANTITY)

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<u>PROTECTIVE EQUIPMENT (Cont'd)</u>				
	A413	<u>Personal Protective Equipment to S.O. Staffs (Cont'd)</u>				
		<u>Safety Equipments</u>				
A		Fire extinguishers	nr	3		
B		Hazard tape	m	200		
	A416	<u>Site Safety Signage and Information Board</u>				
C		Safety signages as per Malaysian Standard Specification	sum			
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12 OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT (CONT'D (PROVISIONAL QUANTITY))

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
		<p style="text-align: center;"><u>COLLECTION</u></p> <p style="text-align: center;"><u>From Page</u></p> <p style="text-align: center;">12/1/3</p> <p style="text-align: center;">12/2/3</p>				
<p>KERJA-KERJA MENAIKTARAF JALAN DAN LAIN-LAIN KERJA BERKAITAN DI LALUAN T100 DARI BULATAN PUSPAKOM KE KAMPUNG KUBANG IKAN, DAERAH KUALA TERENGGANU, TERENGGANU</p>					<p>To "Ringkasan Tender"</p>	

13 PROVISIONAL SUM

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
	W100	<u>PROVISIONAL SUM</u>				
		<u>ADDITIONAL SI WORKS DURING CONSTRUCTION</u>				
A		Allow a Provisional Sum of Ringgit Malaysia Three Thousand Only (RM3,000.00) for the additional SI works during construction to be expended as directed by the Superintending Officer or deducted in whole or in part if not expended	sum			3,000.00
		<u>UNDERGROUND MAPPING</u>				
B		Allow a Provisional Sum of Ringgit Malaysia Six Thousand Five Hundred Only (RM6,500.00) for the underground mapping before construction to be expended as directed by the Superintending Officer or deducted in whole or in part if not expended	sum			6,500.00
		<u>RELOCATION AND PROTECTION OF UTILITIES SERVICES</u>				
C		Allow a Provisional Sum of Ringgit Malaysia One Million One Hundred Forty Thousand Only (RM1,140,000.00) for the protection and/or relocation of the existing utilities services to be expended as directed by the Superintending Officer or deducted in whole or in part if not expended	sum			1,140,000.00
D		Attendance	sum			
E		Profit	%			
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14 PRIME COST SUM

Item	Code No.	Description	Unit	Quantity	Rate (RM)	Amount (RM)
	W300	<u>PRIME COST SUM</u>				
		<u>STREET LIGHTINGS</u>				
A		Allow a Provisional Sum of Ringgit Malaysia One Hundred Sixty Five Thousand Only (RM165,000.00) for the Street Lightings to be expended as directed by the Superintending Officer or deducted in whole or in part if not expended	sum			165,000.00
B		Attendance	sum			
C		Profit	%			
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