



Office of the Premier

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Our Ref: OP/1/3/22

August 30th, 2018

Dear Sir/Madam,

ADDENDUM No. 2 – Clarification & Extension of Tender Deadline

Re: Tender for Installation of Underground Ducts for the Construction of Manhole from Building Society to MUL Power Station gate in Brades

Tenderers are asked to make reference to the following clarifications based on the above named tender: -

- Specification Information for ducts, bends and warning tapes.
- Site Plan for works
- Update Bill of Quantities

Please note that based on the Site plan the quantity for BoQ Item 11.02 has increased from 6 to 7.

Please note that based on the Site plan the quantity for BoQ Item 11.03 has increased from 6 to 7.

Tenderers are asked to note that the submission deadline for submission of tenders under the above named project has been extended from Wednesday 29th August to Wednesday, 12th September 2018 at 12:00pm.

All queries and clarification relating to this tender should be sent to Rawlson Patterson, Civil Engineer, PWD at pattersonr@gov.ms.

Best regards

Daphne Cassell
Permanent Secretary
Office of the Premier

Specification Information for ducts, bends and warning tapes

The following specification is provided for guidance but in most cases a suitable near equivalent will be considered. The supplier must indicate the product specification that he proposes to supply for the required materials;

- 4"x20' PVC Conduit, DB-60, Gray - Four inches diameter (4") by twenty feet long (20'),
 - PVC Conduit, Direct Burial (DB-60) with the colour gray and belled at one end.
 - The conduits carry an outside dimension of 4.5 inches, an internal dimension of 4.528 inches and a min wall thickness of 0.121 inches. In addition, the minimum required density range 0.941 - 0.955 g/cc.
 - The conduits must be heat resistant, with a low coefficient of expansion and a minimum required melt index range <0.15 – 0.40 g/10 minutes. Also it must have a minimum Impact Resistance at 0⁰ c (32⁰ f) ft.lbf.
 - The conduits must have Continuous rigid control, with high impact strength, excellent structural strength. The conduit must carry a minimum pipe stiffness of 60 lb/in/in. The required minimum Flexural Modulus range is 110,000 – 160,000 Psi and a required minimum Tensile strength range 3000 – 4000 Psi.
 - The conduits must have superior load bearing capacity and should be able to withstand loads of at least 10 tonne per axle, at minimum depth of 24" under a highway with a light traffic volume.
 - The conduits must have smooth inner wall and smooth transition between joints.
 - Chemical Inertness where it resists water absorption and is totally immune to galvanic or electrolytic attacks.
 - Conforms to NEMA Standard TC-6 & 8 and ASTM Standard F-512 for utility duct
 - The conduits must have ultraviolet protection in its resin formulation. A minimum of 2-3% carbon black is desirable or other chemical ultraviolet stabilizer such as

Hindered Amine Light Stabilizers (HALS). This will allow the conduit may be stored outside and uncovered for a period of not less than one year.

- 4" DB-60 90⁰ x 36" sweep, bell x PE – Four inches (4") diameter, PVC sweep, Direct Burial (DB-60) with a 90⁰ angle bend, a radius of thirty-six inches (36"), with the colour gray and belled at one end. The sweep carries an outside dimension of 4.5 inches, an internal dimension of 4.528 inches and a min wall thickness of 0.121 inches. This also carries the same characteristics as the conduits.
- 4" Polyethylene plugs with tabs to use as stoppers on the ends of the conduits.
- Red caution tape with the text caution electrical cable below and a dimension of 150mm in width, 0.1mm in thickness and a length per roll of 365m.
- Yellow caution tape with the text caution communication cable below and a dimension of 150mm in width, 0.1mm in thickness and a length per roll of 365m.



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Tender for the laying of ducts from the end of the Sidewalk above MS Osborne to MUL Power Station entrance (370m)

Item	Description	Units	Quantity	Rate	Total
1.00	Preliminaries				
1.01	Contractor's preliminaries, mobilisation and insurance cost. Also include for the safety of the general public while work in progress. Nb: The contractor is responsible for contacting all utilities prior to the commencement of work to re-route or secure such utilities if necessary. The contractor will be held liable for any damages to existing utilities	Item	1		
2.00	Supply of 4" utility ducts				
	Supply and delivered to the site 4" grey utility ducts for the underground installation of power & communications lines. Each has a length of 20ft See specification & drawing details provided	Lengths	550		
3.00	Supply of 4" utility ducts 90 deg. Bends				
	Supply and delivered to the site 4" grey utility ducts for the underground installation of power & communications lines.	Each	50		
4.00	See specification & drawing details provided				
	Supply of manholes covers for communication manholes D400				
	Supply and delivered to the site metal manhole covers for the communication manholes See specification & drawing details provided	Each	6		
5.00	Supply of manholes covers for power supply manholes D400				
	Supply and delivered to the site metal manhole covers for the power supply manholes See specification & drawing details provided	Each	6		
6.00	Excavation along road way (120m)				
6.01	Excavation of trench for the laying 8 sets of 4" utility ducts for communication and power transmission. <i>from the end of the sidewalk above MS Osborne</i> See drawing for details	m ³	114.0		
7.00	Excavation in the verge (150m)				
7.01	Excavation of trench for the laying 8 sets of 4" utility ducts for communication and power transmission. <i>Provision must be made for Water Authority to lay (150m) of water line during the process.</i> See drawing for details	m ³	145.0		
8.00	Laying of 4" utility ducts (120m in roadway & 150m in the verge)				
8.01	To provide all the labour and equipment necessary for the transporting and laying in place 8 sets of 4" ducts. Include for the supply and placing of sand around ducts. <i>Provision must be made for Water Authority to lay (150m) of water line during the process. from the end of the sidewalk above MS Osborne</i> All ducts, bends and warning tape will be the responsibility of the contractor. See drawing for details	m	370.0		
9.00	Backfill of Trench in the Roadway (120m)				
9.01	To provide all labour and equipment necessary for the backfilling & compacting of the trench in verge, with suitable fill material and for the carting away of excess material to an area designated by Engineer.	m ³	125.0		
10.00	Backfill of Trench in the verge (150m)				
10.01	To provide all labour and equipment necessary for the transporting, backfilling & compacting of the trench in the roadway, with suitable fill material, then 8" subbase & 8" base and for the carting away of excess material to an area designated by Engineer. Note: subbase & base material will be provide by PWD See drawing for details	m ³	156.0		
Subtotal Carried Forward					

Subtotal Brought Forward					
11.00	Construction of Communications Manhole				
11.01	Excavation for the construction of the 6 Communications manhole. Care should be taken not to damage recently laid ducts. <i>To include for road crossings</i> The contractor will be held liable for any damages to existing ducts See drawing for details	m ³	20.0		
11.02	Construction of the communication manholes The contractor is responsible for materials, labour, equipment and the installation of the manholes covers. <i>To include for road crossings.</i>	Each	7		
11.03	To provide all material, labour and equipment necessary for the backfilling & compacting of the excavated area around the 6 manholes, with suitable fill material and for the carting away of excess material to an area designated by Engineer. <i>To include road crossings.</i> The contractor is responsible for restoring any section with asphalt or concrete pavement	m ³	7		
12.00	Construction of Electrical Manholes				
12.01	Excavation for the construction of the 6 Electrical manholes. Care should be taken not to damage recently laid ducts. <i>To include for road crossings.</i> The contractor will be held liable for any damages to existing ducts See drawing for details	m ³	16.0		
12.02	Construction of the Electrical manholes The contractor is responsible for materials, labour, equipment and the installation of the manholes covers. <i>To include for road crossings. See drawing details.</i>	Each	6		
12.03	To provide all material, labour and equipment necessary for the backfilling & compacting of the excavated area around the 6 manholes, with suitable fill material and for the carting away of excess material to an area designated by Engineer. <i>To include for road crossings.</i> The contractor is responsible for restoring any section with asphalt or concrete pavement	m ³	5		
	N.B. The contractor will be held liable for any damages to existing ducts				
Total to form of Tender					