

**THE DISTRICT COUNCIL OF GRAND PORT**

**PUBLIC OPENING – TUESDAY 17 SEPTEMBER 2019 AT 10.40 HRS**

**Supply, Fixing and Commissioning of a New Lighting System at Bananes Football Ground**

Procurement Reference Number: *DCGP/RBD/W013/2019*

<i>Item No</i>	<i>Brief Description of Works:</i>	<i>Qty</i>	<i>Rates Rs</i>	<i>Amount Rs</i>	<i>Amount Rs</i>	<i>Amount Rs</i>
				<i>M&amp;E Commercial Engineers Ltd</i>	<i>Lumitech Ltee</i>	<i>Mauritech Ltd</i>
	<p>The project consists of the supply, fixing and commissioning of a new lighting system at the Bananes football ground and associated volleyball pitch. The project shall comprise of lighting poles and floodlights including all associated electrical components, accessories, cabling as per drawings, specifications and Priced activity schedule.</p> <p><b>NOTE:</b></p> <p>a) <b>Excavation, concrete bases including reinforcement, backfilling, warning tape, warning slabs and reinstatement of turfing shall be done by civil works' contractor and SHALL NOT BE QUOTED.</b> Coordination and joint site supervision with the civil works contractor shall be done to ensure smooth running of the project.</p> <p>b) Price quoted shall include for a complete set of electrical tests (continuity, earth loop resistance, luminosity distribution test on the football ground, etc) to be done. An as made circuit diagram to be submitted and all tests and reports to be vetted by an electrical engineer registered under the Registered Professional Engineers Council Act.</p> <p>c) All breakers, isolators, contactors, RCD, switches, cables etc to be of very high quality. Samples to be submitted for approval by the project manager prior to purchase and placing.</p> <p>d) Water and electricity cost shall be borne by the employer.</p>					
<b>1.0</b>	<b>OCTAGONAL POLES</b> The council shall award either item 1.1 or 1.2.					

1.1	<p>Supply and place <b>4 nos</b> octagonal hot dipped galvanized metal pole, <b>as per drawings</b>, with all necessary accessories (brackets/cross arm to receive floodlights, bolts, base plates, anchor bolts etc.).  Price to include for setting out and placing of anchor bolts and securing same to levels and positions prior to casting of concrete bases.</p> <p><b>NOTE: Excavation and casting of bases shall be done by civil works' contractor and SHALL NOT BE QUOTED. Exact positions of bases shall be confirmed on site.</b>  However adequate supervision shall be done to prevent any deviation from the contract.  Care to be taken not to damage turfing outside the working area.</p>	Sum				
1.2	<p>Supply and fix octagonal hot dipped galvanised metal pole, <b>as per contractor's proposal</b>, with all necessary accessories (brackets/cross arm to receive floodlights, bolts, base plates, anchor bolts etc.). Proposal to be accompanied by:</p> <ul style="list-style-type: none"> <li>• A design calculation report, considering design wind speeds of 300 km/hr, vetted by a civil engineer registered under the Registered Professional Engineers Council Act and having at least 3 years post registration experience in at least 2 similar projects over the last 3 years.</li> <li>• Drawings of proposal made with all details (base plates, bolts, cross arms etc)</li> </ul> <p>Price to include for setting out and placing of anchor bolts and securing same to levels and positions prior to casting of concrete bases.</p> <p><b>NOTE: Excavation and casting of bases shall be done by civil works' contractor and SHALL NOT BE QUOTED. Exact positions of bases shall be confirmed on site.</b>  However adequate supervision shall be done to prevent any deviation from the contract.  Care to be taken not to damage turfing outside the working area.</p>	Sum				
2.0	<b>FLOODLIGHT (Metal Halide)</b>					
2.1	<p>Supply and fix 16 nos 1000w floodlights as per specifications. 4 floodlights to be placed per pole on one top most level and properly oriented to avoid any blackspot.</p> <p>Supply and fix 8 nos 500w floodlights as per specifications. 2 floodlights to be placed per pole on one lower level and properly oriented to avoid any blackspot.</p> <p>For each pole, price to include for:</p>	Sum				

	<ul style="list-style-type: none"> <li>Supply and fixing of flexible cables 2.5 mm<sup>2</sup> 3 core for each floodlight and connected to individual very high quality breakers 32A double pole (5 nos per pole) easily accessible from access door.</li> <li>Supply and fixing of flexible cables 2.5 mm<sup>2</sup> 3 core from each individual breakers 32A double pole to a 3 Phase breaker 40A 4 poles easily accessible from access door.</li> <li>Individual earthing system for each pole and associated floodlights</li> <li>More or less equal load balancing to be done among the 3 Phases</li> </ul> <p>Sample of breaker and floodlight to be submitted for approval by the project manager prior to purchase and placing.</p>					
<b>3.0</b>	<b>CABLES IN TRENCH</b>					
3.1	<p>Supply and place electrical conduit or PVC high pressure type pipes into trench as per drawings. Exact alignment of trench shall be confirmed on site.</p> <p>Supply, lay and connect very high quality armoured copper cables 6 mm<sup>2</sup> 4 core in trenches from 3 Phase breaker 40A 4 poles in each pole to breakers in main distribution panel.</p> <p>Sample of cabling to be submitted for approval by the project manager prior to purchase and placing. Certificate to certify compliance to MS101 may be requested by the project manager.</p> <p>No connections or electrical wire joint shall be made in the cables from poles to main distribution board and lengths of cables shall be inspected by the project manager or his representative prior to laying in sleeves/pipes.</p> <p><b>NOTE: Excavation, backfilling, warning tape, warning slab and draw pits shall be done by civil works' contractor and SHALL NOT BE QUOTED.</b></p>	SUM				
<b>4.0</b>	<p><b>DISTRIBUTION PANEL</b></p> <p>Supply and fix wall mounted distribution panel of adequate modules to cater for main DB, sub DB1 and sub DB2 as per description below, inside the new cubicle (to be done by civil work's contractor).</p> <p>Main DB to cater only for football ground</p> <p>Sub DB1 to cater for volleyball pitch and children garden</p> <p>Main DB and Sub DB1 to be independent of each other</p>					

4.1	<p><b>MAIN DB</b> Works should include the supply and fixing of all wiring, electrical controls and accessories (one isolator 4 pole 100 A, RCD 4 pole 100 A, Busbars 3 phase 125 A, 4 Breakers 4 pole 40 A, 4 Contactors 40 A 3 Phase, 4 rotary switch ON/OFF for each electrical pole to be fixed outside the distribution board).</p> <p>Price to include for 16mm<sup>2</sup> 4 core copper from meter to main isolator, RCD and busbars; and 6 mm<sup>2</sup> 4 core from busbar to existing sub distribution panel. All exposed wiring to be concealed in trunking/sleeves where required and all joints sealed with silicon.</p> <p><b>NOTE: Cabling/poles from CEB network to CEB meter shall be done by the employer and shall not be quoted for.</b></p>	SUM				
4.2	<p><b>SUB DB (PROVISIONAL)</b> Works should include the supply and fixing of all wiring, electrical controls and accessories (one isolator 2 pole 63 A, RCD 2 pole 63 A, 5 Breakers 2 pole 40 A, 1 Timer switch 16A for children garden.</p> <p>Price to include for 10mm<sup>2</sup> 2 core copper from main DB isolator's entrance to sub DB isolator and RCD; and 4 mm<sup>2</sup> 3 core from RCD to breakers. Electrical network to comprise of an appropriate earthing system.</p> <p><b>NOTE: Cabling/poles from CEB network to CEB meter shall be done by the employer and shall not be quoted for.</b></p>					
5.0	<p><b>FLOODLIGHT (LED) (PROVISIONAL)</b></p>					
	<p>Supply and fix <b>8 Nos</b> 200w floodlights as per specifications. Floodlights to be placed in sets on 2 numbers on existing fencing pole on one level as indicative on drawings (exact position to be confirmed on site) and properly oriented to avoid any blackspot. Contractor to provide for additional brackets/supports to floodlights as agreed with Project Manager</p>					
	<p>For each floodlight, price to include for:</p> <ul style="list-style-type: none"> <li>Supply and fixing of flexible cables 2.5 mm<sup>2</sup> 3 core for each floodlight and connected to a connection box (one for each pole) IP 65 or higher, properly fixed</li> <li>Supply and fixing of flexible cables 4.0mm<sup>2</sup> 3 core from each individual breakers in sub DB to connection box for each set. Wiring to be found in PVC electrical pipes 50mm dia. aesthetically placed. Horizontal PVC sleeves to be safely fixed to topmost existing horizontal metal poles. Price to include for bends, connections etc. Routing of sleeves to be agreed on site.</li> </ul>					

	Sample of breaker and floodlight to be submitted for approval by the project manager prior to purchase and placing.					
6.0	<p><b>DECORATIVE LAMPS</b> Supply and fix <b>6 Nos</b> single decorative lamps as per below specifications:</p> <ul style="list-style-type: none"> <li>Lamp should be for outdoor use and shall be of length in the range of 2200-2600 mm</li> <li>Lamp shall be of anti rust material</li> <li>Lamp shall be rated IP 55 or better</li> <li>Lamp shall be fitted with E27 type LED bulb 20-25W colour to be approved by project manager.</li> </ul> <p>Contractor shall submit sample for approval by Project Manager prior to fixing. For each lamp, price to include for:</p> <ul style="list-style-type: none"> <li>Supply and fixing of flexible cables 2.5 mm<sup>2</sup> 3 core for each lamp and connected to a connection box (one for each lamp) IP 65 or higher, properly fixed</li> <li>Supply and fixing of flexible cables 4.0mm<sup>2</sup> 3 core from each individual breakers in sub DB to connection box for each lamp. Wiring to be found in PVC electrical pipes 50mm dia, placed in trench. Price to include for bends, connections etc.</li> </ul>	Sum				
7.0	<p><b>SPARE PARTS (<u>PROVISIONAL</u>)</b> Supply the following spare parts:</p>					
6.1	Floodlights metal halide 1000W as per specification	6				
6.2	Metal halide bulbs 1000W compliant with floodlight proposed	12				
6.3	Ignitor compatible with floodlight proposed	12				
6.4	Ballast compatible with floodlight proposed	12				
6.5	Floodlights LED 200W as per specification	2				
				<i><b>M&amp;E Commercial Engineers Ltd</b></i>	<i><b>Lumitech Ltee</b></i>	<i><b>Mauritech Ltd</b></i>
			Subtotal 1			
			<b>Contingency</b>	<b>200,000.00</b>	<b>200,000.00</b>	<b>200,000.00</b>
			Subtotal 2			
			VAT at 15%			
			<b>TOTAL</b>	<b>2,044,263</b>	<b>2,016,695.05</b>	<b>2,221,513</b>