

Lot 2 - Pump Distribution Network

The following Schedule of Prices must include but not be limited to the materials listed below. This list must be read in conjunction with the Technical Specifications

**Works To be done On Calibishie Ridges Irrigation Project**

**Client: Division of Agriculture**

**Project: Calibishie Irrigation Project**

**Location: Calibishie, Commonwealth of Dominica**

**LOT-2 PUMP DISTRIBUTION NETWORK**

<b>Bill No. 1. Preliminaries</b>						
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Technical Specifications</b>	<b>Quantity</b>	<b>Unit Rate EC\$</b>	<b>Amount EC\$</b>
1.1	Allow for all charges arising from the provision of the 10% performance bond pursuant to Article 15 of the Conditions of Contract	Lump Sum	15	1	5,000.00	5,000.00
1.2	Allow for insurance of the works, materials and plant, as well as replacement cost of equipment in accordance with the Conditions of Contract as specified in the Contract Data.	Lump Sum	14	1	10,500.00	10,500.00
1.3	Allow for additional insurance to cover for the following:	Lump Sum	14			
	(i) Public liability or third party insurance in accordance with Clause 13 of the Conditions of Contract as specified in the Contract Data.			1	3,000.00	3,000.00
	(ii) Accident or injury to workmen in accordance with Clause 13 of the Conditions of Contract as specified in the Contract Data.			1	5,000.00	5,000.00
1.4	Allow for erection and maintenance of two (2) project signs depicting information on an 8' x 4' sheet of 3/4" exterior exposure ply	Lump Sum	12.8	1	3,800.00	3,800.00
1.5	rates for compliance with the Conditions of Contract that are not covered in the rates elsewhere in the bills of quantities. The tenderer should indicate which clause of the Conditions of Contract each rate is applicable.					
1.6	Provide for mobilisation & demobilisation/ cleanup, protective works and access for all sites	Lump Sum		1	35,000.00	35,000.00
						0.00
1.7	Preparation of Works, shop drawings and as-Built	Lump Sum		1	25,000.00	25,000.00
<b>Carry forward to Summary</b>						<b>87,300.00</b>
<b>Bill No 2. GENERAL</b>						
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Technical Specifications</b>	<b>Quantity</b>	<b>Unit Rate EC\$</b>	<b>Amount EC\$</b>
2.1	Allow provisional sum for the provision of spare parts	Lump Sum	Vol 4: Art 7	1	25,000.00	25,000.00
2.2	Allow provisional sum for the provision of maintenance tools and equipment	Lump Sum		1	10,000.00	10,000.00
2.3	Provisional sum for service visits and reporting	Lump Sum	Vol 4: Art 7	1	5,000.00	5,000.00
2.4	Contingency	Lump Sum		1	45,000.00	45,000.00
<b>Carry forward to Summary</b>						<b>85,000.00</b>

Bill No. 3	Header Tank - (2 No.)		Technical Specifications	Quantity	Unit Rate EC\$	Amount EC\$
Item No.	Description	unit				
3.1	Provide all labour, equipment and supervision for bulk excavation to formation level including stripping 300mm top soil to obtain leveled surface before excavation for foundations in accordance with the drawings, specifications and instructions provided by the Engineer.	m <sup>3</sup>	11 & T.S 1.6	1902		
3.2	Provide all labour, equipment and supervision for excavation of trenches for pipes and under drain below formation level in accordance with the drawings, specifications and instructions provided by the Engineer.	m <sup>3</sup>	11 & T.S 7.1.1	16		
3.3	Extra-over provisional sum for rock excavation as defined in accordance with the drawings and specification.	m <sup>3</sup>	11 & T.S 1.6	42		
3.4	Provide all labour, equipment and supervision for forming excavation to levels and lines required.	m <sup>2</sup>	11 & T.S 1.6	160		
3.5	Provide all labour and supervision for supplying and placing gravel to underdrain in accordance with the drawings and specifications.	m <sup>3</sup>	11 & T.S 1.3.3	16		
3.6	Provide all labour and supervision for supplying and placing of filter fabric accordance with drawings, specifications and instruction provided by the Engineer.	m	11 & T.S 1.3.3	118		
3.7	Provide all labour, equipment and supervision for supplying and placing blinding concrete (1:4:8 mix by volume) in accordance with the drawings and specifications.	m <sup>3</sup>	11 & T.S 1.7	14		
3.8	Provide all labour, equipment and supervision for supplying and placing reinforcement in accordance with drawings and specifications.		11 & T.S 1.7.3			
	(i) in foundation and floor slab, 10mm and 16mm bars	k.g		3723		
	(ii) in walls 16mm and 20mm bars.	k.g		6762		
	(iii) in roof 20mm bars.	k.g		3231		
3.9	Provide for all labour, equipment and supervision for supplying, erection and removal of formwork in accordance with the drawings, specifications and instructions provided by the Engineer.		11 & T.S 1.3.3			
	(i) for foundation edges	m <sup>2</sup>		28		
	(ii) for wall involving two pours ( approximately 1:36 sqyd each )	m <sup>2</sup>		391		
	(iii) for roof slab including over hang	m <sup>2</sup>		124		
3.10	Provide for all labour, equipment and supervision for supplying and placing concrete in accordance with the drawings, specifications and instructions provided by the Engineer.		11 & T.S 1.7			
	(i) in foundation	m <sup>3</sup>		45		
	(ii) in wall involving two pours	m <sup>3</sup>		49		
	(iii) in roof	m <sup>3</sup>		19		
	(iv) screed floor to obtain slopes	m <sup>3</sup>		5		
3.11	Supply and Installation of secure access hatch	Sum	11			
	<b>To summary</b>					

Bill No. 4	Control Structures Assembly					
Item No	Description	Unit	Technical Specifications	Quantity	Unit Rate EC\$	Amount EC\$
	<i>Provide all material, plant, tools, equipment, labour and supervision for installation of following works in accordance with drawings, specifications and instructions of the Project Manager/Representative. All volumes are given as in-place volumes.</i>					
4.1	<b>Supply and Install Control Head Assembly in accordance with drawings and specifications.(ECI CALI 309-46/47)</b>		11 & T.S 6.0			
	Control head	unit		16		
4.2	<b>Supply and Install Filter Station Assembly in accordance with drawings and specifications.(ECI CALI 309-57)</b>		11 & T.S 3.0			
	Filter Station Assembly	unit		1		
4.3	<b>Supply and Install Booster Pump Assembly in accordance with drawings and specifications.</b>		11 & T.S 1.1			
	Booster Pump Assembly	unit		3		
11.4	<b>Supply and Install Pressure Regulating Valve Assembly in accordance with drawing and specifications. Drawing No. (ECI CALI 309-50)</b>		11 & T.S 5.3			
	Pressure Regulating valve					
	250mm	unit		1		
4.4	<b>Supply and Install Control Valve Assembly in accordance with drawing and specifications. Drawing No. (ECI CALI 309-50)</b>		11 & T.S 1.1			
	Control Valve Assembly					
	280mm	unit		6		
	250mm	unit		2		
	200mm	unit		2		
	125mm	unit		4		
4.5	<b>Supply and install Washout Valve Assembly in accordance with drawing and specifications. Drawing No. (ECI CALI 309-56)</b>		11 & T.S 1.1			
	Washout valve					
	125mm	unit		2		
4.6	<b>Supply and install Air valve in accordance with drawing and specifications. Drawing No. (ECI CALI 309-48)</b>		11 & T.S 5.4			
	Air valve					
	280mm	unit		3		
	250mm	unit		2		
	200mm	unit		1		
	125mm	unit		2		
	<b>To Summary</b>					

Bill No. 5	Protective Structures					
Booster Pump Shed						
Item No	Description	Unit	Technical Specifications	Quantity	Rate EC\$	Amount EC\$
	<i>Provide all material, plant, tools, equipment, labour and supervision for installation of following works in accordance with drawings, specifications and instructions of the Project Manager/Representative. All volumes are given as in-place volumes.</i>					
	<b>Booster Pump Shed</b>					
	<b>Construction Of Booster shed</b>		11 & T.S. 9.0 & 1.1			
5.1	<b>In-Situ concrete; reinforced; 21N/mm 20mm, aggregate- 1:2:4 (Cement, sand and stone)</b>		11 & T.S 1.7			
	To Bed	m <sup>3</sup>		2		
5.2	<b>Reinforcement fabric; BS 4483 or similar approved; lapped joints , both ways to foundation</b>		11 & T.S 1.7.3			
	To beds: Ref. A142	m <sup>2</sup>		3		
5.3	<b>Filling with imported material; depositing and compacting in equal layers</b>		T.S. 1.6.4 & 9.0			
	Filling with hardcore to make up levels; n.e. 200mm	m <sup>3</sup>		2		
5.4	<b>To FLEXIBLE SHEET - TANKING / DAMP</b>		11 & T.S. 9.0			
	Polythene sheeting; 500 gauge lapped joints laid horizontal on sand bedding	m <sup>2</sup>		35		
	200mm Blocks. To Edge of foundation Precast concrete blocks; hollow ; in concrete mortar(1:3) filling cores solid with concrete mix (1:2:4)		T.S. 9.0			
	Blocks	m <sup>2</sup>		7		
	150mm Blocks. To walls Precast concrete blocks; hollow ; in concrete mortar(1:3) filling cores solid with concrete mix (1:2:4)					
	Blocks	m <sup>2</sup>		48		
5.5	<b>Surface treatment ; compacting</b>		11 & T.S. 9.0			
	filling ; blinding with sand	m <sup>3</sup>		2		
	<b>ROOF - COVERING/FLASHING</b>		11 & T.S. 9.0			
	<i>Standard roofing sheets, corrugated; cutting and fixing timber purlins with galvanized nails</i>					
5.6	<b>Roof Covering</b>		11 & T.S. 9.0			
	Slope to Drawing Specs.	m <sup>2</sup>		35		
5.7	<b>Accessories</b>		11 & T.S. 9.0			
	Capping	m		7		
5.8	<b>CARPENTRY/TIMBER FRAMING. FIRST FIXING</b>		11 & T.S. 9.0			
	50mm x 75mm; purlin	m		9		
	50mm x 150mm; rafters	m		12		
	50mm x 200mm; ridge and hip	m		8		
	25mm x 250mm; fascia boards	m		8		
	Timber Uprights 50mm x 200mm	m		19		
5.9	<b>Accessories/Sundry</b>		11 & T.S. 9.0			
	Hurricane Ties	No		23		
5.10	<b>Construction of door including all related works. Panel doors: Plain galvanize sheeting - Raised panel fitted in timber frame with protective steel bar crossing</b>		11 & T.S. 9.0			
	Doors	m <sup>2</sup>		1		
	<b>To Summary</b>					

Filter Station Shed						
Item No	Description	Unit	Technical Specifications	Quantity	Rate EC\$	Amount EC\$
	<i>Provide all material, plant, tools, equipment, labour and supervision for installation of following works in accordance with drawings, specifications and instructions of the Project Manager/Representative. All volumes are given as in-place volumes.</i>					
	<b>Construction Of Filter station shed</b>		T.S. 3.0			
5.11	<b>in-SITU concrete; reinforced; 21N/mm 20mm, aggregate- 1:2:4 (Cement, sand and stone)</b>		T.S. 1.7			
	To foundation	m <sup>3</sup>		3		
5.12	<b>Reinforcement fabric; BS 4483 or similar approved; lapped joints , both ways to foundation</b>		T.S. 1.7.3			
	To beds: Ref. A142	m <sup>2</sup>		17		
5.13	<b>Filling with imported material; depositing and compacting in equal layers</b>		T.S. 1.6.4 & 9.0			
	filling with hardcore to make up levels; n.e. 200mm	m <sup>3</sup>		3		
5.14	<b>To Flexible sheet - Tanking Damp - TANKING / DAMP</b>		11 & T.S. 9.0			
	Polythene sheeting; 500 gauge :lapped joints laid horizontal on sand bedding	m <sup>2</sup>		17		
5.12	<b>200mm Blocks. To Edge of foundation Precast concrete blocks; hollow ; in concrete mortar(1:3) filling cores solid with concrete mix (1:2:4)</b>		T.S. 9.0			
	Blocks	m <sup>2</sup>		24		
5.16	<b>Surface treatment ; compacting</b>		11 & T.S. 9.0			
	filling ; blinding with sand	m <sup>3</sup>		3		
5.17	<b>ROOF- COVERING/FLASHING -SIDEWALLS</b>		11 & T.S. 9.0			
	<b>standard roofing sheets-16 gauge corrugated; cutting and fixing timber purlins with galvanized nails</b>					
	<b>Roof Covering</b>					
	Slope to Drawing Specs.	m <sup>2</sup>		17		
	<b>SIDE WALLS - Corrugated sheet -Gauge 16</b>		11 & T.S. 9.0			
	Panels to sidewall	m <sup>2</sup>		45		
5.18	<b>Accessories</b>		11 & T.S. 9.0			
	Capping	m		5		
5.19	<b>CARPENTRY/TIMBER (Treated) FRAMING . FIRST FIXING</b>		11 & T.S. 9.0			
	50mm x 75mm; purlin	m		18		
	50mm x 150mm; rafters	m		23		
	50mm x 200mm; ridge and hip	m		15		
	25mm x 250mm; fascia boards	m		15		
	Timber Uprights 50mm x 200mm	m		37		
5.20	<b>Accessories/Sundry</b>		11 & T.S. 9.0			
	Hurricane tie	No		46		
	Clamp holders for uprights	No		6		
5.21	<b>Construction of Double External Door including all Related Works. (1800 x 2000 mm)</b>		11 & T.S. 9.0			
	Panel doors: corrugated galvanize sheeting - Raised panel fitted in timber frame	sum		1		
	<b>To Summary</b>					

Control Shed						
Item No	Description	Unit	Technical Specifications	Quantity	Rate EC\$	Amount EC\$
	<i>Provide all material, plant, tools, equipment, labour and supervision for installation of following works in accordance with drawings, specifications and instructions of the Project Manager/Representative. All volumes are given as in-place volumes.</i>					
	<b>Construction Of Control shed - (16 No.)</b>		11 & T.S. 9.0 & 1.1			
5.22	<b>in-situ concrete; reinforced; 210/10mm aggregate- Ratio of 1:2:4 (Cement, sand and stone);</b>		T.S. 1.7			
	Bed	m <sup>3</sup>		26		
5.23	<b>Reinforcement fabric; BS 4483 or similar approved; lapped joints , both ways to foundation</b>		T.S. 1.7.3			
	To beds: Ref. A142	m <sup>2</sup>		132		
5.24	<b>Filling with imported material; depositing and compacting in equal layers</b>		T.S. 1.6.4 & 9.0			
5.25	Filling with hardcore to make up levels; n.e. 200mm	m <sup>3</sup>		26		
	<b>TO FLEXIBLE SHEET - TANKING / DAMP</b>		11 & T.S. 9.0			
	polythene sheeting; 500 gauge; lapped joints laid horizontal on sand bedding	m <sup>2</sup>		132		
	<b>200mm Blocks. To Edge of foundation Precast concrete blocks; hollow ; in concrete mortar(1:3) filling cores solid with concrete mix (1:2:4)</b>		T.S. 9.0			
	Blocks	m <sup>2</sup>		64		
5.26	<b>Surface treatment ; compacting</b>		11 & T.S. 9.0			
	filling ; blinding with sand	m <sup>3</sup>		8		
	<b>ROOF- COVERING/FLASHING</b>		11 & T.S. 9.0			
	<b>Standard Roofing Sheets, corrugated; cutting and fixing timber purlins with galvanized nails</b>					
5.27	<b>Roof Covering</b>		11 & T.S. 9.0			
	Slope to Drawing Specs.	m <sup>2</sup>		132		
5.28	<b>Accessories</b>		11 & T.S. 9.0			
	Capping	m		40		
5.29	<b>Standard Roofing Sheets, corrugated; cutting and fixing timber purlins with galvanized nails</b>		11 & T.S. 9.0			
	Panels to side walls	m <sup>2</sup>		120		
5.30	<b>CARPENTRY/TIMBER FRAMING. FIRST FIXING</b>		11 & T.S. 9.0			
	50mm x 75mm; purlin	m		144		
	50mm x 150mm; rafters	m		184		
	50mm x 200mm; ridge and hip	m		120		
	25mm x 250mm; fascia boards	m		120		
	Timber Uprights 50mm x 200mm	m		296		
5.31	<b>Accessories/Sundry</b>		11 & T.S. 9.0			
	Hurricane tie	No		368		
	Clamp holders for uprights	No		32		
5.32	<b>Construction of door including all related works.</b>		11 & T.S. 9.0			
	doors	m <sup>2</sup>		16		
	<b>To Summary</b>					

Pipeworks - Control Sheds to Mains						
Bill No. 6	PIPE					
Item No	Description	Unit	Technical Specifications	Quantity	Rate EC\$	Amount EC\$
	<i>Provide all material, plant, tools, equipment, labour and supervision for installation of following works in accordance with drawings, specifications and instructions of the Project Manager/Representative. All volumes are given as in-place volumes.</i>					
6.1	<b>PE Pressurised pipes to be supplied and laid in accordance with drawings and specifications</b>		11 & T.S. 7.1			
	80mm PE pipes	m		480		
	100mm PE pipes	m		218		
<b>To Summary</b>						
Distribution Mains						
Bill No. 7	Distribution Mains					
	<b>Section P1</b>					
	<b>Profile P1a From CH 0+000 to CH 0+230</b>					
7.1	<b>Lay mains 280 PVC, along route in accordance with specifications and drawings.</b>		T.S. 7.1			
	(i) Excavation of trenches	m <sup>3</sup>	T.S. 7.1.1	138		
	(ii) Provide for rock & root excavation	m <sup>3</sup>	T.S. 7.1.1	41		
	(iii) Supply and lay PVC pipes.	m	11 & T.S. 7.1	230		
7.2	<b>Earth Movement:</b>		11			
	(i) Select acceptable native material or supply appropriate granular material for backfill of trench.	m <sup>3</sup>		138		
	(ii) Cart away materials not for reuse to dump site approved by Engineer	m <sup>3</sup>		0		
7.3	<b>Supply all materials &amp; equipment and test pipes</b>	m	T.S. 1.8.5.3	230		
<b>SUB-TOTAL</b>						
	<b>Section P1</b>					
	<b>Profile P1b From CH 0+230 to CH 0+840</b>					
7.4	<b>Lay mains 250mm PVC, along route in accordance with specifications and drawings.</b>		T.S. 7.1			
	(i) Excavation of trenches	m <sup>3</sup>	T.S. 7.1.1	336		
	(ii) Provide for rock & root excavation	m <sup>3</sup>	T.S. 7.1.1	34		
	(iii) Supply and lay PVC pipes.	m	11 & T.S. 7.1	610		
7.5	<b>Earth Movement:</b>		11			
	(i) Select acceptable native material or supply appropriate granular material for backfill of trench	m <sup>3</sup>		336		
	(ii) Cart away materials not for reuse to dump site approved by Engineer	m <sup>3</sup>		0		
7.6	<b>Supply all materials &amp; equipment and test pipes</b>	m	T.S. 1.8.5.3	610		
<b>SUB-TOTAL</b>						
	<b>Section P1</b>					
	<b>Profile P1c From CH 0+840 to CH 1+110</b>					
7.7	<b>Lay mains 250mm PVC, along route in accordance with specifications and drawings.</b>		T.S. 7.1			
	(i) Excavation of trenches	m <sup>3</sup>	T.S. 7.1.1	149		
	(ii) Provide for rock & root excavation	m <sup>3</sup>	T.S. 7.1.1	15		
	(iii) Supply and lay PVC pipes.	m	11 & T.S. 7.1	270		
7.8	<b>Earth Movement:</b>		11			
	(i) Select acceptable native material or supply appropriate granular material for backfill of trench	m <sup>3</sup>		149		
	(ii) Cart away materials not for reuse to dump site approved by Engineer	m <sup>3</sup>		0		
7.9	<b>Supply all materials &amp; equipment and test pipes</b>	m	T.S. 1.8.5.3	270		
<b>SUB-TOTAL</b>						

<b>Section P1</b>						
Item No	Description	Unit	Technical Specifications	Quantity	Rate EC\$	Amount EC\$
<b>Profile P1d From CH 1+110 to CH 1+560</b>						
7.1	<b>Lay mains 125mm PVC, along route in accordance with specifications and drawings.</b>		T.S. 7.1			
	(i) Excavation of trenches	m <sup>3</sup>	T.S. 7.1.1	203		
	(ii) Provide for rock & root excavation	m <sup>3</sup>	T.S. 7.1.1	20		
	(iii) Supply and lay PVC pipes.	m	11 & T.S 7.1	450		
7.11	<b>Supply and install all fittings including:</b>		11			
7.12	<b>Earth Movement:</b>		11			
	(i) Select acceptable native material or supply appropriate granular material for backfill of trench	m <sup>3</sup>		203		
	(ii) Cart away materials not for reuse to dump site approved by Engineer	m <sup>3</sup>		0		
7.13	<b>Supply all materials &amp; equipment and test pipes</b>	m	T.S. 1.8.5.3	450		
<b>SUB-TOTAL</b>						
<b>To Summary</b>						
<b>Savanne Paille -Ridge</b>						
<b>SECTION P2</b>						
<b>Profile P2a From CH 0+000 to CH 0+615</b>						
			11			
<b>Provide all material, plant, tools, equipment, labour and supervision for installation of following works in accordance with drawings, specifications and instructions of the Project Manager/Representative. All volumes are given as in-place volumes.</b>						
7.14	<b>Lay Mains 200mm PVC pipe along route in accordance with specifications and drawings:</b>		T.S. 7.1			
	(i) Excavation of trenches	m <sup>3</sup>	T.S. 7.1.1	277		
	(ii) Provide for rock & root excavation	m <sup>3</sup>	T.S. 7.1.1	28		
	(iii) Supply and lay PVC pipes.	m	11 & T.S 7.1	615		
7.15	<b>Earth Movement:</b>		11			
	(i) Select acceptable native material for backfill of up to sub-base.	m <sup>3</sup>		242		
	(ii) supply appropriate granular material for backfill of trench up to base.	m <sup>3</sup>		95		
	(iii) Cart away materials not for reuse to dump site approved by Engineer.	m <sup>3</sup>		35		
7.16	<b>Supply all materials &amp; equipment and test pipes</b>	m	T.S. 1.8.5.3	615		
<b>SUB-TOTAL</b>						
<b>SECTION P2</b>						
<b>Profile P2b From CH 0+615 to CH 0+895</b>						
7.17	<b>Lay Mains 125 PVC pipe along route in accordance with specifications and drawings:</b>		T.S. 7.1			
	(i) Excavation of trenches	m <sup>3</sup>	T.S. 7.1.1	126		
	(ii) Provide for rock & root excavation	m <sup>3</sup>	T.S. 7.1.1	13		
	(iii) Supply and lay PVC pipes.	m	11 & T.S 7.1	280		
7.18	<b>Earth Movement:</b>		11			
	(i) Select acceptable native material for backfill of trench up to sub-base.	m <sup>3</sup>		110		
	(ii) supply appropriate granular material for backfill of trench up to base.	m <sup>3</sup>		38		
	(iii) Cart away materials not for reuse to dump site approved by Engineer.	m <sup>3</sup>		16		
7.19	<b>Supply all materials &amp; equipment and test pipes</b>	m	T.S. 1.8.5.3	280		
<b>SUB-TOTAL</b>						
<b>To Summary</b>						

Bill No. 8	Pipeline Fittngs					
Item No. 10	Description	unit	Technical Specifications	Quantity	Rate EC\$	Amount EC\$
8.1	Elbows - 90 Degrees		11 & T.S 1.6.3.2			
	280mm	No.		1		
	250mm	No.		5		
	200mm	No.		3		
	125mm	No.		4		
8.2	Elbows - 45 Degrees		11 & T.S 1.6.3.2			
	280mm	No.		6		
	250mm	No.		22		
	200mm	No.		15		
	125mm	No.		18		
8.3	Elbows - 22.5 Degrees		11 & T.S 1.6.3.2			
	280mm	No.		3		
	250mm	No.		12		
	200mm	No.		9		
	125mm	No.		10		
8.4	Elbows - 11.22 Degrees		11 & T.S 1.6.3.2			
	280mm	No.		3		
	250mm	No.		10		
	200mm	No.		7		
	125mm	No.		8		
	<b>To Summary</b>					