Ref No	Description	Unit	Qty	Rate	Extension
	BILL NO 1				
	PRELIMINARIES /GENERAL CONDITIONS				
1.0	PROJECT PARTICULARS				
	Name: Drainage and slope protection. Nature: to slow the velocity of heavy water runoff. Location: Calder Hall/Friendsfiels, Tobago.				
1.1	Construct box drain 115m long; Supply, fabricate and place 2m x 1m x 1m gabion basket 175m long and construct retaining wall 10m long.	item			
	Name and Addresses of Employer and Consultants				
1.2	Employer: Division of Infrastructure Quarries and Urban Development. 2-10 Old Government Farm Road, Shaw Park, Tobago.	item			
2.0	TENDER AND CONTRACT DOCUMENTS				
	Documents				
	List of drawings/other documents from the bills of quantities were prepared.				
2.1	as received	item			

Ref No	Description	Unit	Qty	Rate	Extension
3.0	THE SITE/EXISTING BUILDINGS				
	The site/ existing buildings				
	Existing buildings on or adjacent to the site				
3.1	take due care in ensuring protection to existing buildings on or adjacent to the site	item	1		
4.0	THE CONTRACT/SUB-CONTRACT				
	Form of contract				
	Schedule of clause headings of standard conditions				
	FIDIC, conditions of Contract for Construction, for building and engineering works. Green book.				
4.1	Special conditions or amendments to standard conditions	item	1		
	Contractor's insurance responsibility				
4.2	Contractors all risk	item	1		
	Performance guarantee bond/collateral warranties				
	under seal	XX			

Ref No	Description	Unit	Qty	Rate	Extension
5.0	EMPLOYER'S REQUIREMENTS: TENDERING/SUB-LETTING/SUPPLY				
	Employer's requirements or limitations				
	All subcontractors/suppliers must be approved by the client prior to their being undertaken to complete any work/s				
5.1	Fixed charge	item	1		
6.0	EMPLOYER'S REQUIREMENTS: PROVISION, CONTENT AND USE OF DOCUMENTS				
	Employer's requirements or limitations				
	Certified copies of contract documents to be made available for inspection at all reasonable times to the Employers/Architects personnel				
6.1	Fixed charge	item	1		

Ref No	Description	Unit	Qty	Rate	Extension
7.0	EMPLOYER'S Requirements: QUALITY STANDARDS/CONTROL				
	Employer's requirements or limitations				
	Quality assurance: Employ the services of building surveyor				
7.1	Fixed charge	item	1		
	Quality assurance; Testing of materials/testing of works				
	Fixed charges	item	1		
8.0	EMPLOYER'S REQUIREMENTS: SECURITY/SAFETY/PROTECTION				
	Employer's reequipments or limitations, details stated				
	Noise and pollution control				
8.1	Time related charge	item	1		
	Maintain public and private roads				
8.2	Time related charge	item	1		
9.0	CONTRACTOR'S GENERAL COST ITEMS: MANAGEMENT AND STAFF				
	Engineering, Surveyor				
9.1	Time related charges	item	1		
9.2	Fixed charges	item	1		
9.3	Time related charge	item	1		

Ref No	Description	Unit	Qty	Rate	Extension
10.0	CONTRACTOR'S GENERAL COST ITEMS: SITE ACCOMMODATIONS				
	Site Accommodations				
10.1	Fixed charges	item	1		
10.2	Time related charge	item	1		
11.0	CONTRACTOR'S GENERAL COST ITEMS: SERVICES AND FACILITIES				
	Services and Facilities				
11.1	Power Time related charge	item	1		
11.2	Water Time related charge	item	1		
11.3	Safety, health and welfare Time related charge	item	1		
11.4	Storage of materials Time related charge	item	1		
11.5	Rubbish disposal Time related charge	item	1		
11.6	Maintenance of public road and private roads Time related charge	item	1		
11.7	Small plant and tools Time related charge	item	1		

Ref No	Description	Unit	Qty	Rate	Extension
12.0	CONTRACTOR'S GENERAL COST ITEMS: MECHANICAL PLANT				
	Mechanical Plant				
12.1 12.2	Earthmoving plant Fixed charge Time related charge	item item	1 1		
13.0	CONTRACTOR'S GENERAL COST ITEMS: TEMPORARY WORKS				
	Temporary works				
13.1	Create temporary access according to instructions of the assigned Engineer Time related charge	item	1		
	to collection				
	General Conditions Preliminaries and Insurances				
	l	1	I		

Ref No	Description	Unit	Qty	Rate	Extension
	BILL NO. 2				
14.0	PROVISIONAL WORK				
	Unspecified				
	Include the following Provisional Sums:				
	For defined work				
14.1	provision of materials, samples and testing	sum	1		
14.2	imported fill, around and top site, work to be carried out in accordance with engineer's instructions	sum	1		
14.3	road access, works to be carried out in accordance with engineer's instruction. See drawing C20; drawing no.3.	sum	1		
14.4	provision for drops when constructing drain. Approval and inspection carried by engineer.	sum	1		
14.5	all works not measured or listed in bill, works carried out in accordance with engineer's instructions	sum	1		

Ref No	Description	Unit	Qty	Rate	Extension
	BILL NO. 2				
15.0	DAYWORKS				
	Include the following provisional sums				
	The following schedule of Dayworks shall be defined in "Definition of prime cost of daywork carried out under a building contract"				
15.1	LABOUR: - include the provisional sum of 15000.00 for labour	sum	1		
15.2	add for incidental cost, overheads and profit	%			
15.3	MATERIALS AND GOODS: - include the provisional 25000.00 for materials and goods	sum	1		
15.4	add for incidental cost, overheads and profit	%			
15.5	PLANT: include the provisional sum of 18000.00 for plant (plant shall be charged at the market rates current at the time the work is executed)	sum	1		
15.6	add for incidental cost, overheads and profit	%			
	to collection				
	Provisional sum Dayworks				

Ref No	Description	Unit	Qty	Rate	Extension
	MEASURED WORKS BILL NO. 3				
16.0	KERBS/EDGINGS/CHANNELS/PAVING ACCESSORIES				
	Construction of box drain				
	Construction of box drain including earthworks and excavation, backfilling, installation and dismantling of formwork, concrete placing, testing, inclusive if vibration leveling and compaction, placing of rebars, all the like accessories and all transportation as per specifications. See drawing C02; drawing no. 1				
16.1	EXCAVATING AND FILLING				
16.1.0	Excavating; trenches, width 0.30m; maximum depth 1.00m	m3	45		
16.1.1	Breaking out existing materials; rock (provisional quantity) Extra over excavation irrespective of depth for breaking out	m3	11		
16.1.2	Extra over excavation irrespective of depth for excavating				
16.1.4	soft spots; unsuitable topsoil and fill; including all earthwork support; compacting; disposal of excavation material offsite; backfilling as engineers' specification	m3	11		
16.1.4	next to existing structure; generally,	item	1		

balance carried forward

Ref No	Description	Unit	Qty	Rate	Extension
	balance brought forward				
	Construction of box drain				
16.1.5	working space allowance to excavations; trenches	m2	210.5		
16.1.6	Earthwork support; maximum depth 1.00m; distance between opposing faces 2.00m	m2	210.5		
16.1.7	Disposal; surface water	item	1		
16.1.8	Disposal; excavated material; off site	m3	45		
16.1.9	Filling to excavation; average thickness 0.25m; obtained off site, hardcore				
	Hardcore filling; coarse aggregate material, well graded; spread, level; and compacted	m3	17		
17.0	MIXING/CASTING/CURING IN SITU CONCRETE				
17.1.0	Blinding; 10 Mpa (N/mm2) Foundations; poured on or against earth or unblinded hardcore	m3	11		
	reinforced concrete 25 Mpa (N/mm2)				
17.1.1 17.1.2	base/foundation; reinforced walls; reinforced	m3 m3	43 60		
17.11.2	mand, reminiscu	1110			
18.0	FORMWORK FOR IN SITU CONCRETE				
18.1.0	Sides of foundations; plain verticals; 1.00m	m2	600		
	balance carried forward				

Ref No	Description	Unit	Qty	Rate	Extension
	balance brought forward				
19.0	REINFORCEMENT FOR IN SITU CONCRETE				
	reinforcement steel work; supplying, cutting, bending, placing				
19.1.1	T10 rebars	kg	116		
19.1.2	T12 rebars	kg	200		
19.1.3	Fabric; B.S. 4483, hard drawn plain round steel; welded	m2	210.5		
20.0	WORKED FINISHES/CUTTING TO IN SITU CONCRETE				
20.1.0	Troweling;	m2	810.5		
	to collection construction of hor drain				

to collection construction of box drain

Ref No	Description	Unit	Qty	Rate	Extension
	MEASURED WORKS BILL NO. 3 CRIB WALLS/GABIONS/REINFORCED EARTH Construction of retaining wall				
21.0	Construction of retaining wall including earthworks and excavation, backfilling, installation and dismantling of formwork, concrete placing, testing, inclusive if vibration leveling and compaction, placing of rebars, all the like accessories and all transportation as per specifications. See drawing CO2; drawing no. 5 DEMOLITION				
21.1	Individual structures remove existing structure, dispose offsite and make good for proposed works	item	1		
22.0 22.1.0	Excavating; trenches, width 0.30m; maximum depth 1.00m	m3	7.2		
22.1.1	Extra over excavation irrespective of depth for breaking out structure (provisional quantity)	item	1		

balance carried forward

Ref No	Description	Unit	Qty	Rate	Extension
	balance brought forward				
22.1.2	Extra over excavation irrespective of depth for excavating				
22.1.3	soft spots; unsuitable topsoil and fill; including all earthwork support; compacting; disposal of excavation material offsite; backfilling as engineer's specification	item	1		
22.1.4	next to existing structure; generally,	item	1		
22.1.5	Disposal; surface water	item			
22.1.6	Disposal; excavated material; off site	m3	7.2		
22.1.7	Filling to excavation				
	Hardcore filling; coarse aggregate material, well graded; spread, level; and compacted	item	1		
23.0	MIXING/CASTING/CURING IN SITU CONCRETE				
23.1.0	Blinding; 10 Mpa (N/mm2) Foundations; poured on or against earth or unblinded hardcore	m3	1		
	reinforced concrete 25 Mpa (N/mm2)				
23.1.1	base/foundation	m3	6		
23.1.2	wall	m3	5		

balance carried forward

Ref No	Description	Unit	Qty	Rate	Extension
	balance brought forward				
24.0	FORMWORK FOR IN SITU CONCRETE				
24.1	Sides of foundations; plain verticals; 1.00m	m2	30		
25.0	REINFORCEMENT FOR IN SITU CONCRETE				
	reinforcement steel work; supplying, cutting, bending, placing				
25.1.0	T10 rebars	kg	80		
25.1.1	T12 rebars	kg	102		
25.1.2	T16 rebars	kg	90		
26.0	WORKED FINISHES/CUTTING TO IN SITU CONCRETE				
26.1.0	Troweling;	m2	18		
26.1.1	accessories for in situ concrete (pipes for weep holes, nails etc.)	item	1		
			l		

to collection construction of retaining wall

Ref No	Description	Unit	Qty	Rate	Extension
	MEASURED WORKS BILL NO. 3				
	CRIB WALLS/GABIONS/REINFORCED EARTH				
	Gabion basket supply and place-in				
27.0	EXCAVATING AND FILLING				
27.1.0	clear site of trees, shrubs and unsuitable materials	item	1		
27.1.1	Extra over excavation irrespective of depth for excavating foundation				
27.1.2	soft spots; unsuitable topsoil and fill; including all earthwork support; compacting; disposal of excavation material offsite	item	1		
27.1.3	Supply selected granular backfill as engineer's specification	item	1		
28.0	MIXING/CASTING/CURING IN SITU CONCRETE				
	Blinding; 10 Mpa (N/mm2)				
28.1.0	Foundations; poured on or against earth or unblinded hardcore	m3	10		
1	balance carried forward				

Ref No	Description	Unit	Qty	Rate	Extension
	Supply of gabion basket/ mattress, with binding wire, mesh wire including rolling, cutting and weaving; assembling gabion basket, placing in position including, stretching, forming compartments, tying with bracing wires and tying lids complete. Providing and filling stone/boulder in gabion baskets including dressing, bedding, bounding and all transportation as per specifications. See drawing C20; drawing no. 4.				
28.1.1	Assembly 2m x 1m x 1m gabion baskets and secure	nr	402		
28.1.2	Supply suitable stones 100mm - 200mm all complete	m3	730		
28.1.3	Filling gabion baskets all complete	nr	402		
28.1.4	Supply and place non-woven filter fabric	m2	700		

to collection gabion basket supply and place-in

	Summary		
BILL NO.	PRELIMINARIES		
BILL NO. 2	PROVISIONAL SUM & DAYWORKS		
BILL NO.	MEASURED WORKS		
	Construction of box drain Retaining wall Gabion basket supply and place-in		
	Sub total		
	VAT 12.5%	12.5%	
	Total		
	CONTINGENCIES	10%	
	Total		