



**Division of Food Security, Natural Resources, the Environment & Sustainable
Development
Procurement Unit, Shirvan Administrative Complex,
Shirvan Road, Shirvan, Tobago
Tel. #639-2234/1966 Fax #635-1815**

03rd July 2024

AMENDMENT TO BILL OF QUANTITIES

Reference is made to the Invitation to Tender (ITT) DFSNRES D 2023/24-010 **Buccoo Fish Facility and Research Facility**. Attached is a copy of the amended (corrected) Bill of Quantities as discussed on the site visit on the 27th June 2024.

Please note that all components of the previously issued Tender Document are applicable and are to be observed for Submission.

Procurement Unit.

Repair Works to Buccoo Fish Facility and Research Facility

Amended (Corrected) Bill of Quantities

Item	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Buccoo Fish Facility Activities</i>				
1	General Works				
1.1	Allow for ongoing setting out of survey activities in connection with the project	Item	1		
1.2	Allow for miscellaneous Supplies: spray paint, stakes/ profiles, caution tape, safety signs etc.	Item	1		
1.3	Allow for Insurances in accordance with Tender Document	Item	1		
1.4	Allow for Security of contractor's items during the project.	Item	1		
1.5	Allow for OSHA requirements	Item	1		
1.6	Power wash all concrete surfaces around the building	Item	1		
	Total to Summary				
2	Roofing				
2.1	Remove and restore 1 inch x 12 inch (W) x 12 ft (L) timber bash board with sanding and wood putty. Include for reinstalling and paint all-round. In addition supply and install new section	Lf	75		
2.2	Remove and cart away corrugated roof sheets, clean and secure timber rafters and laths where necessary. Also allow for replacing badly damaged rafters and laths - supply and install new 24 gauge corrugated galvanized sheets. Provide all fasteners screws and flashing.	Sf	2,100		

	Total to Summary				
3	External Wall				
3.1	Allow for the removal of spalling and or damaged concrete to agreed dept with DFSNRESD officer on the project. Include for repairing of said area with cement/ sand mixed, inclusive of poly V	Item	1		
3.2	Allow for no less than 1 1/2" floor screed with an effective bonding product to the existing floor. The casting method is to improve the appearance of the concrete surface/floor in the fish cleaning area. Cater to fill all holes, cracks etc.	Sf	2300		
	Total to Summary				
4	Fencing				
4.1	Remove existing chain link fence and razor wire. Include for removing vegetation to allow for clear working space around fencing - cart away same	Lf	154		
4.2	Supply and install 270 ft (L) x 6 ft (H) 9 gauge pvc coated chain link fence wire (green) as directed. Include price to fix and strengthen line post	Lf	270		
4.3	Allow for cleaning concrete footing at base of fence. Include for cement/ sand render to same.	Item	1		
4.4	Repair gate on south end. Include for scraping, applying anticorrosive paint and finish with two coats of oil base paint	Nr	1		
4.5	Fabricate and install two gates on northern side of building (similar size and design to existing). Include to build from 2 inch outer frame and 1 1/2 inch internal pieces	Nr	2		
	Total to Summary				

5	Drainage				
5.1	Supply and install 4" thick reinforce concrete cover to catch pit at back of the building. Include for half inch (1/2") corrugated steel 6 inches c/c both ways. Make good on concrete edges.	Sf	32		
5.2	Allow for clearing concrete catch pit of slush and flush system and drainage line on completion (prior to completing item 5.1)	Item	1		
5.3	Increase drainage dept in vending area to achieve effective water runoff. Note that water should not be stagnant on completion of this activity.	Item	1		
5.4	Allow for making good on edges (vending area and drain next to face basin) to receive fibre grate grating cover. Supply and install grating cover. Note: safety is paramount in these area.	Item	1		
5.5	Allow for cleaning face basin. Include for removing and replacing face basin tap	Nr	1		
5.6	Construct 25 ft (L) x 3 ft (W) x 3 ft (D) reinforced concrete box drain with 5 inches thick reinforced concrete slab (internal dimensions). Allow all steel to be 5/8 corrugated @ 6 inches c/c	Sf	25		
	Total to Summary				
6	Fish cleaning table				
6.1	Allow for the restoration of concrete fish cleaning table (all round), including sinks with rendered concrete finish - make good all cracks and broken edges. Include for painting with a marine base paint (similar to existing)	Sf	300		
6.2	Allow for the building and installation of cedar doors for storage areas under fish vending tables. Include for door frames, install locking mechanism, 4 inches pad locks and hasp and staple	Nr	10		
6.3	Procure and install 1" thick polyethylene cutting board as directed	Sf	192		

6.4	Install taps to each cutting surface. Note: galvanize water lines are to be positioned along the center of the concrete table, and taps are to be firmly secured and functional.	Nr	12		
6.5	Allow for reducing the height on engine repair bin as directed. In addition, the top portion design must be similar to the existing. Also include for procuring and installing tap and ensure efficient water flow.	Item	1		
	Total to Summary				
7	Painting				
7.1	Supply and paint all interior and exterior walls, doors (including locker doors), all timber members (roof and columns), engine repair bin with marine base paint (burger). Note, all previously painted surfaces shall be washed, scraped, sanded prior to painting activities. Also include for the fixing of cracks, dents, holes prior to painting etc.	Sf	4,500		
7.2	Allow for improving the aesthetic of the staff office. Also include for removing and replacing tiles (similar to existing)	Sf	126		
7.3	Remove and replace 4"x4" RPP timber columns next to concrete table.	Nr	4		
	Total to Summary				
8	Electrical				
8.1	Allow for the inspection and upgrade of the electrical system on the building in accordance with the electrical standard of Trinidad and Tobago. Cater for replacing all existing lights with LED equivalent. Include for 2 number 250 watts flood lights at front and side of building	Item	1		

	Total to Summary				
9	Doors				
9.1	<p>Allow for the removal of existing locker doors and supply and install cedar panel doors 28 inch x 80 inch, inclusive of aluminium frames and locking mechanism similar to existing.</p> <p>Also, allow for the removal and replacement of all other doors and door frames (aluminium door frames and cedar doors) toilet, shower, office etc.</p>	Nr	33		
	Total to Summary				
10	Bathroom				
10.1	Remove and cart away wall tiling in bathroom.	Sf	10		
10.2	Supply and install 12 inch x 18 inch ceramic tile to bathroom walls (similar high to existing)	Sf	75		
10.3	Supply and install bathroom stainless steel shower head and handle.	Nr	1		
10.4	Supply and install brass pipe.	Nr	1		
10.5	Allow for cleaning toilet area and remove old toilet set and supply and install Armitage handle flush toilet set (white). Also allow for the effective functioning of the toilet.	Nr	1		
10.6	Supply and install wall mounted ceramic face basin (white) inclusive of faucet.	Nr	1		
	Total to Summary				
	Site Clean-up				
10.7	Allow for final cleaning and remove all unwanted items to an approved dump site or laydown yard	Item	1		
	<i>Buccoo Research Facility Activities</i>				

11	Facilitation Works				
11.1	Allow for the cleaning and carting away of vegetation around the site, including fence line next to boat repair shop	Item	1		
11.2	Allow for the gutting of the entire building, including external bathroom and toilet. Allow for the removal of salvage items to a secure location to be identified. And, all other items are to be removed offsite to an approved dump site.	Item	1		
11.3	Allow for the removal of floor and wall tiles from external bathroom and toilet.	Item			
11.4	Remove all timber door and door frames.	Nr.	6		
11.5	Construct concrete dive trough as directed. Cater for 4 feet x 4 feet x 4 feet dept.	Nr.	1		
11.6	Continue 3' wide x 4" thick reinforced concrete apron around toilet and bathroom area. Include cost to power wash existing concrete apron.	Lf	30		
11.7	Procure and install in main building area 18"x18" (and above) ceramic tile with close grout lines	Sf	530		
11.8	Prepare and cast 4" thick concrete on grade next to fence line. Allow for the repair of the existing concrete curb	Sf	160		
	Total to Summary				
12	Termite Treatment				
12.1	Allow for the treatment of termites prior to construction activities	Item			
	Total to Summary				
13	Roofing				
13.1	Remove all roof members over main building and external toilet. Include for all necessary prepping prior to installing new roof.	Sf	1035		

13.2	Procure and install roof members, DPP treated 2"x6" rafters @ 2' c/c, DPP treated 1"x4" lath @ 3' c/c, DPP treated 1"x12" fascia, treated 1/2" groove ply to be place atop rafters, corrugated sheets and 2 1/2" screws with rubber backing. Note: See painting item (22) for information.	Sf	1035		
	Total to Summary				
14	Toilet and Bathroom				
	All inclusive of formwork and other materials, and equipment for addition to create toilet and enclose open sides.				
14.1	Allow for the demolition of existing concrete	Item			
14.2	Allow for good construction practice in preparing new foundation, which is to be join to existing toilet foundation. Cater for 7'x6'x1' dept and compact same with 4" hard-core, 2" sand layer, 1200 gauge polythene, 3x3x5 gauge BRC, 1/2" HT steel @ 6" c/c and lockset into existing foundation and 21N concrete @ 4" thick.	Item			
14.3	Construct walls to enclose open spaces with 4"x8"x16" concrete block 9' high. Include for 1/2" cement sand render/ plaster on both sides.	Sf	210		
14.4	Procure and install no smaller than 16"x16" ceramic tiles on floors; 4 feet high on toilet walls and 7 feet high for shower. Include for tiling walkway and step	Sf	300		
14.5	Procure and install Armitage (handle flush) toilet set. Include for all necessary plumbing for effective functioning.	Nr.	2		
14.6	Procure and install wall mounted face basin and faucets	Nr.	1		
14.7	Supply and install aluminium shower head and tap set.	Nr.	1		
	Total to Summary				
15	Doors				

15.1	Procure and install 36"x80" cedar doors (painted). Include for aluminium door frames, deadbolt and handle locks.	Nr	9		
15.2	Allow for the removal and disposal of timber partitions. Replace partitions with concrete works – 4"x8"x16" hollow clay blocks; rendered both sides with 12mm cement & sand render. Allow for door opening in same location	Sf	220		
	Total to Summary				
16	Windows				
16.1	Remove and disposed of louver type windows. Include for the removal of timber mouldings and BRC.	Nr.	6		
16.2	Procure and install 6 number push out UPVC windows to fit openings. Include for 3 number 1'x2' push out UPVC windows for toilets and bathroom.	Item	1		
	Total to Summary				
17	Air Condition Units				
17.1	Allow for power supply as directed for A/C units	Nr.	3		
17.2	Procure and install 1 ton units as directed. Include for units to be herosited.	Nr.	3		
	Total to Summary				
18	Kitchenette				
18.1	Allow for high and low shaker style cupboard in kitchen area. Include for cedar material to be used, under mount double bowl sink with goose neck faucet, quartz counter top and tile backsplash	Sf	30		
18.2	Allow for the restoration of white timber cabinetry in room 1 & 2	Nr	2		

	Total to Summary				
19	Plumbing				
19.1	Allow for the removal of old plumbing lines and fixtures where necessary.	Item	1		
19.2	Procure and install new plumbing lines and fixtures in accordance with Trinidad and Tobago plumbing code. Also include for rearranging plumbing line to ensure protection of all waterlines	Item	1		
19.3	Procure and install ogee square PVC rain water gutter and downpipes with all necessary parts and fittings.	Lf	85		
19.4	Allow for investigation and tracing of toilet waste lines to termination point (fish facility and research unit) to determine completion of the system.	sum			
	Total to Summary				
20	Electrical				
20.1	Allow for rewiring of the building in accordance with the standard requirements of the Trinidad and Tobago Electricity Company. Also allow for securing all necessary approvals from T&TEC	Item			
20.2	Allow for LED lights throughout the building. Include for two (2) exterior 250 watts security lights	Item			
	Total to Summary				
21	Metal Fabrication Work				
21.1	Supply and install burglar proofing on the interior walls of windows and external doors. Including for making good on concrete faces and edges where any damage occurs.				

21.2	Framing for burglar proofing shall comprise ¾ in x ¾ in zinc coated mild RHS steel with 16 -gauge thickness. Horizontal members welded at 4 in intervals and vertical members welded at 4 in intervals and mounted via concrete anchor bolts to the blockwork.	Sf	144		
	Total to Summary				
22	Painting				
22.1	Supply and paint interior and exterior walls, doors, all timber members and ceiling with weather resistant latex paint. Note, all previously painted surfaces shall be washed, scraped, sanded where necessary prior to painting activities. Also include for the fixing of cracks, dents, holes etc.	Sf	4'500		
22.2	Supply and paint one undercoat of anti-corrosive paint and two finishing coats of chip-resistant and water-resistant metal paint to all installed burglar proofing bars.	Sf	144		
	Total to Summary				
23	Demobilize				
23.1	Allow for final cleaning and remove all unwanted items to an approved dump site or laydown yard	Item	1		
	Total to Summary				

Repair Works to Buccoo Fish Facility and Research Facility		
Bill of Quantities		
Summary		
ITEM	DESCRIPTION	TOTAL
	Buccoo Fish Facility Activities	
1	General works	
2	Roofing	
3	External Wall	

4	Fencing	
5	Drainage	
6	Fish cleaning table	
7	Painting	
8	Electrical	
9	Doors	
10	Bathroom	
	Buccoo Research Facility Activities	
11	Facilitation Works	
12	Termite Treatment	
13	Roofing	
14	Toilet and Bathroom	
15	Doors	
16	Windows	
17	Air Condition Units	
18	Kitchenette	
19	Plumbing	
20	Electrical	
21	Metal Fabrication Work	
22	Painting	
23	Demobilize	
	SUB-TOTAL	
	(Vat 12.5%)	
	TOTAL	