

REFURBISHMENT OF WEATHER STATION HOUSE AT TOWER HILL, FREETOWN

Bill of Quantities

Item No	Description	Unit	Qty	Unit Rate (Le)	Amount (Le)
1.00	PRELIMINARIES				
1.01	<p>MOBILIZATION</p> <p>The contractor will mobilise and deliver to the site all relevant equipment, personnel and materials necessary for the execution of the works</p>	item	1		
1,02	<p>SITE OFFICE/STORE</p> <p>Allow for providing suitable secure store for materials used for the project and also a Temporary secure office on site for the site Foreman-in -charge and other craftsmen. Provide the necessary furniture and lighting which will be cleared away after completion of works</p>	item	1		
1.03	<p>INSURANCE/LICENSES</p> <p>Provide Insurance against injury to personnel Also make all arrangements for the issue of licenses, permit etc required by law for the executiun of the contract</p>	item	1		
1.04	<p>PROGRESS PHOTOGRAPHS</p> <p>Progress photographs should be provided in intervals. Number & sizes of the photographs will be directed by the Supervising Engineer or his representative</p>	item	1		
1.05	<p>TEMPORARY FENCING OF THE FACILITIES TO BE REHABILITATED</p> <p>Allow for temporary fencing the weather station buildings using bushsticks and corrugated CI sheets from the demolished roof structure of weather station technical building adjacent to the Main Weather Station House to stop intruders entering the compound during refurbishment</p>	item	1		
	PRELIMINARIES TO COLLECTION B/D				

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	PRELIMINARIES TO COLLECTION B/F				
1.06	<p>WELFARE/SAFETY, FIRST AID BOX Provide adequate laterine and keep it clean to the satisfaction of the Health Authorities. Provide on site a first Aid Box for the propose of treating injured employees on site. The contents of the box must comply to all respects with factories Ordinance</p>	item	1		
1.07	<p>SCAFFOLDING AND PLANT Allow for providing all scaffolding, hoists tackle and other equipment generally required for the proper, safe and efficient execument of the works expecially the external works on the external walls. The same scaffolding is to be used by Engineer or his representative for the purpose of measurement</p>	item	1		
1.08	<p>ELECTRICITY CONNECTION TO THE BUILDINGS Allow for the disconnection of electricity from the buildings at the start of the refurbishment. Reconnection and testing of the electricity at the completion of refurbishment. This work will be executed by EDSA (Electricity Distribution Service Authority)</p>	item	1		
1.09	<p>DEMOBILIZATION Allow for the demobilization of all plants equipment and personnel and left over materials on work completion. The surrounding within the temporary fence must be thoroughly cleared and cleaned befoe the final inspection and handling over the facilities to the Client.</p>	item	1		
	PRELIMINARIES CARRIED TO SUMMARY				

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Item No	Description	Unit	Qty	Unit Rate (Le)	Amount (Le)
A	MAIN WEATHER STATION BUILDING				
2.00	DEMOLITION				
2.01	FLOORS				
(i)	Take up perished pvc tiles in ground, first and second floors, remove from site and prepare floors to receive new tiles	m ²	270		
(ii)	Clean concrete floor and prepare floor to receive new finishing	m ²	270		
2.01	WALLS				
(i)	Pull down existing partition walls of hardbaods and timber in ground, in first and second floors, and remove from site	m ²	55		
(ii)	Clean wall externally and prepare to receive new finishings	m ²	550		
(iii)	Clean wall internally and prepare to receive new finishings	m ²	550		
2.02	WINDOWS				
(i)	Mortise and remove all the delapidated steel casement windows and prepare window openings to receive new aluminium sliding windows	No	12		
(ii)	Pull down all delapidated canopies of CI sheets and timber frames on ground ,first and second floors. Remove the items from site	Item	1		
(iii)	Remove all steel delapidated gages made to protect the air conditional equipment placed outside on the extanal walls	Item	1		
	DEMOLITION Summary on Page 2 B/D				

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Item No	Description	Unit	Qty	Unit Rate (Le)	Amount (Le)
	Demolition Summary on Page 2 B/F				
2.03	DOORS				
(i)	Take down existing delapidated flush and timber doors including frames, making good all works disturbed and remove from site	No	6		
(ii)	Take down existing steel doors including frames making good all works disturbed and remove from site	No	4		
2.04	STAIRS				
(i)	Clean existing terrazzo-like tiles in stairs, inspect for minor cracks and repair as necessary	m ²	33		
(ii)	Inspect handrail: Make good as necessary Paint with enamel (oil) paint	m	16		
(iii)	Break up of the exiting stair case where the bottom reinforcing rods of the staircase are exposed and rusty. Removed debris from site and build a new staircase by providing water iron irods, sand, cement and formwork	Item	1		
2.05	CEILING				
(i)	Clean and apply approved sealant to concrete ceiling	m ²	270		
2.06	PLUMBING				
(i)	Pull down existing water closet, and wash hand basin, cut all pipes to a convenient point and remove from site	item	1		
2.07	ELECTRICAL				
	Strip out all electrical wiring,remove all light fittings, switches and socket and clearaway from site and make good all works disturbef	Item	1		
	DEMOLITION carried to summary				

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Item No	Description	Unit	Qty	Unit Rate (Le)	Amount (Le)
3.00	GENERAL WORKS				
	INTERNAL FINISHING				
	WALL FINISHING				
3.01	BLOCKWORK Precast sandcrete (1:6) solid blocks bedded and jointed in cement mortar (1:6) in 150mm thick wall on the extensions and partitioning of the floors to have toilets				
(i)	Ground Floor	m ²	70		
(ii)	First Floor	m ²	105		
(iii)	Second Floor	m ²	105		
3.02	PLASTER WORKS 12mm thick cement and sand (1:4) rendering on walls (internally)				
(i)	Ground Floor	m ²	140		
(ii)	First Floor	m ²	210		
(iii)	Second Floor	m ²	210		
	FLOOR FINISHES				
3.03	FLOOR SCREEDING BEDS AND BACKING WORK, Mortar Cement and sand (1:3) mix on concrete base floor level and to fall, Screeded to receive ceramic tiles in				
(i)	Ground Floor	m ²	100		
(ii)	First Floor	m ²	85		
(iii)	Second Floor	m ²	85		
3.04	FLOOR TILING TILE WORKS: Ceramic tiles to BS 1281, glazed from standard range, butt joints, symmetric layout bedding in cement mortar (1:4) joint with cement mortar (1:1)				
(i)	Ground Floor	m ²	100		
(ii)	First Floor	m ²	85		
(iii)	Second Floor	m ²	85		
	GENERAL WORKS on Page B/d				

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Item No	Description	Unit	Qty	Unit Rate (Le)	Amount (Le)
	GENERAL WORKS on Page B/F				
3.05	EXTERNAL DOORS & ALUMINIUM WINDOWS WITH CANOPIES				
(i)	METAL DOORS TO ENTRANCES TO GROUND, FIRST AND SECOND FLOORS: Refurbish the existing metal door 750mm wide X 2100mm high single steel flush door complete with 4-turns lock and accessories	No	5		
(ii)	Ditto double steel flush door complete with 4-turns lock and accessories	No	1		
(iii)	Aluminium Windows Aluminium sliding windows in bronzed anodised frame and tinted glazing complete with mosquito screen (glazing included) overall sizes, double tracks- double sliding leaves in <u>Ground Floor, First floor and second floor</u>				
(a)	1800mm x 1200mm	No	6		
(b)	1350mm x 1200mm	No	3		
(c)	600mm X 600mm	No	7		
(iii)	Guard Bars Steel Guard bars constructed with 50mm x 25mm RHS as Horizontal & vertical members fabricated to Supervising Engineering's Design for <u>Ground Floor, First floor and second floor</u>				
(a)	1800mm x 1200mm	No	6		
(b)	1350mm x 1200mm	No	3		
©	600mm X 600mm	No	7		
3.06	EXTERNAL WINDOWS REINFORCED CONCRETE CANOPIES Notice above the windows as directed by the Engineer and with 1:2:4 mix - 12mm aggregates reinforced concrete and formwork as per drawings construct canopy above each window to stop splash rainfall on the walls from entering into the building for Ground, First and second floors				
(i)	Window size 1800 x 1200	No	6		
(ii)	Window size 1350 x 1200	No	3		
	GENERAL WORKS on Page B/d				

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Item No	Description	Unit	Qty	Unit Rate (Le)	Amount (Le)
3.07	GENERAL WORKS on Page B/F WOODEN DOORS Provide and Fix timber panel doors with dimensions 750mm wide x 2050mm high with door frame 44mm thick x150mm wide wrought hard wood rabeted frame fixed into wall with built-in lugs including 100mm brass butt hinges screwed to timber and door plus quality lock approved by Engineer				
(i)	Ground floor	No	3		
(ii)	First Floor	No	2		
(iii)	Second Floor	No	2		
(iv)	750mm wide x 2050mm high semi solid core plywood faced flush door lipped all round with for all toilet doors with lockset of approved quality and locking accessories	NO	9		
3.08	ROOF STRUCTURE Reinforced concrete Roof :				
(i)	Screed concrete roof top with cement to sand mix (1:1½) with 500g of waterproofing adhesive for any 50kg of cement used to receive non-slip ceramic tiles	m ²	90		
(ii)	ROOF TOP TILING TILE WORKS: Ceramic tiles to BS 1281, glazed from standard range, butt joints, symmtric layout bedding in cement motar (1:1½) joint	m ²	90		
3.09	CEILING FINISHES 3/4mm Ceiling hard board nailed to and including first grade treated timber battens with clout nails in grids of 600 x 1200mm complete with cover strips and matching covings				
(i)	Ground Floor Ceiling	m ²	100		
(ii)	First Floor ceiling	m ²	85		
(iii)	Second Floor ceiling	m ²	85		
	GENERAL WORKS on Page B/d				

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Item No	Description	Unit	Qty	Unit Rate (Le)	Amount (Le)
	GENERAL WORKS on Page B/F				
	CEILING FINISHES CONTINUOUS				
	50mm x 50mm treated hardwood noggins to receive 600mm x 600mm hardboard ceilings				
(IV)	Ground Floor Ceiling	m ²	75		
(V)	First Floor ceiling	m ²	70		
(VI)	Second Floor ceiling	m ²	70		
3.10	PAINTING AND DECORATION				
3.11	INTERNAL WALL WORKS				
	Walls: Scrape off existing paint and apply two coats of emulsion paint on prepared surface at				
(i)	Ground Floor	m ²	200		
(ii)	First Floor	m ²	175		
(iii)	Second Floor	m ²	175		
	Prepare and apply one coat sealer and two coats emulsion paint on rendered walls Internally at				
(IV)	Ground Floor	m ²	150		
(V)	First Floor	m ²	140		
(VI)	Second Floor	m ²	140		
	Prepare and apply one undercoat and two coats gloss paint on wood and metal doors				
(VII)	Ground Floor	m ²	45		
(VIII)	First Floor	m ²	30		
(ix)	Second Floor	m ²	30		
(xi)	roof floor	m ²	5		
3.12	EXTERNAL WALL WORKS				
(i)	Walls: Scrape off existing paint and apply one undercoat, one gloss coat and finishing coat pf quality enamel (oil) paint on External Walls from ground level to roof level including the reinforced concrete canopies	m ²	550		
	GENERAL WORKS CARRIED TO SUMMARY				

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Item No	Description	Unit	Qty	Unit Rate (Le)	Amount (Le)
4	ELECTRICAL INSTALLATION Light fittings: Supply and installed completely, wire including conduits, metal boxes, inspection boxes and cables (All lighting circuit must use 1.5mm ² twin pvc sheated cables) Second fix of light and switch points				
4.01	Low Energy bulb or LED reading wall light : "ARTCULATED ARM" with switch	No	8		
4.02	Low Energy LED Lamp light "ARTCULATED ARM with switch	No	20		
4.03	Corridor/Stair ceiling light (Philip type) Coreline Downlight (CFL OR LED) 15watts/1000 -lm	No	6		
4.04	1 Gang switch	No	24		
4.05	13 amps flush single socket	No	13		
4.06	13 amps flush double socket	No	27		
4.07	1.5mm twin and earth PVC insulated sheathed cable	roll	5		
4.08	2.5mm twin and earth PVC insulated sheathed cable	roll	4		
4.09	4mm twin and earth PVC insulated sheathed cable	roll	1		
4.1	6 mm twin and earth PVC insulated sheathed cable	roll	1		
4.11	6-WAY DISTRIBUTION Board	No	3		
4.12	Corridor/Staircase Sensor	No	2		
4.13	Toilet Sensors	No	6		
4.14	Air Conditioners	No	9		
4.15	100 Amp Isolator	No	3		
	ELECTRICAL WORKS on Page B/d				

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Item No	Description	Unit	Qty	Unit Rate (Le)	Amount (Le)
	ELECTRICAL WORKS on Page B/F				
4.16	Builder's Works Allow for all chases, ducts, marking holes and for making good after	item	1		
4.17	Allow a sum to prepare "As Installed " Record Drawings together with Operating and Maintenance manuel	item	1		
4.18	Testing Allow a sum to carry out fixed wiring and testing of all the Electrical Connection	item	1		
	ELECTRICAL WORKS CARRIED TO SUMMARY				

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Item No	Description	Unit	Qty	Unit Rate (Le)	Amount (Le)
5.00	PLUMBING INSTALLATION Plumbing and Sanitary Services Installation				
(i)	Pipework, joint and support to the following cold water and sanitary installation				
(ii)	Concealed uPVC service pipework to cold water and sanitary installation including joints and supports to the running lengths of the following				
5.01	P-trap WC suit complete with cistern	No	6		
5.02	Wash hand Basin, single with bottle trap 1¼"	No	8		
5.03	SANITARY APPLIANCES Supply and fix the following sanitary appliances by of standard quality or approved, including assembling, plugging, jointing, screwing and all necessary plastic cold pipework fittings				
(i)	Vitreous China W.C suit complete with 9litre flushing cistern with float ball valve flexible connector ring seat and cover	No	6		
(ii)	425m x 535m vitreous china wash hand basin complete with fixing brackets, 1Nr 12m pillar, tap plug, chain and stay with waste outlet	No	8		
(iii)	Toilet roll holder, plugged and screwed to block wall				
(iv)	Toilet Mirror, plugged and screwed to block wall	No	4		
5.04	SOIL DRAINAGE allow for trench excavation size 400mm x 1000mm maximum depth and installation of soil and waste pipes	item	1		
	Plumbing Installation B/D				

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Item No	Description	Unit	Qty	Unit Rate (Le)	Amount (Le)
	Plumbing Installation B/F				
5.05	SEPTIC TANK/SOAKAWAY Allow a sum for clearing and repairing of the septic tank and soakaway (Provisional)	item	1		
5.06	INSPECTION CHAMBERS Construct inspection chamber to Ministry of Works Standard design internal dimension 600mm x 600mm 600mm deep	item	1		
5.07	BUILDER'S WORK ALL for all chases, ducts making holes and for making good after	item	1		
5.08	TESTING Allow for testing the entire water reticulation for performance, water pressure, water tightness and provide relevant documentation	item	1		
5.09	AS-INSTALLED DRAWINGS Allow a sum to prepare "As-installed" record drawings together with operating and maintenance Manuals	item	1		
	PLUMBING INSTALLATION Carried to summary				

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Item No	Description	Unit	Qty	Unit Rate (Le)	Amount (Le)
6.00	EXTERNAL WORKS				
(i)	<u>Aprons/Surface Water Drain</u>				
6.01	Excavate surface to remove top soil starting at ground level and maximum depth not exceeding 750mm and deposit excavated materials in spoil heaps on site	m ³	20		
6.02	150mm thick laterite hardcore material laid to slight falls to receive concrete aprons	m ³	4		
6.03	75mm thick plain in-situ concrete mix (1:3:6 -37mm aggregate) in aprons complete with formwork to edges	m ³	3		
6.04	Clean existing U-shaped drains, repair the floor of the drain and sides with reinforced concrete mix (1:2:4) as directed by the Engineer	Item	1		
	EXTERNAL WORKS Carried to summary				

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Item No	Description	Unit	Qty	Unit Rate (Le)	Amount (Le)
	WEATHER STATION MAIN BUILDING SUMMARY				
1.00	PRELIMINARIES				
	MAIN WEATHER STATION BUILDINGS				
2.00	DEMOLITION				
3.00	GENERAL WORKS				
4.00	ELECTRICAL INSTALLATION				
5.00	PLUMBING INSTALLATION				
6.00	EXTERNAL WORKS				
	TOTAL REFURBISHMENT COST OF MAIN BUILDING OF WEATHER STATION				
	CONTINGENCY 5%				
	FINAL TOTAL REFURBISHMENT COST OF MAIN BUILDING OF WEATHER STATION				
	In Words:				