

Bill of Quantities

for the installation of 34 bath-houses

in Kutupalong Refugee Camp (Camp 11) and extension sites Ukhiya, Cox's Bazar

SL No	Description of Items, Materials, Works required including supply, delivery, fitting, fixing, casting, cleaning etc.	Unit	Qty.	Unit price (BDT)	Total (BDT)
Site preparation					
1	Earth work in excavation of foundation for bath-house, carrying and disposing of all excavated materials at a safe distance designated by the engineer-in-charge (EIC), all types of soil except rocky gravelly, organic maintains proper slope, disposing of all back filling of sites of all excavated materials to a safe distance back filling of sites of original level etc, all complete to the direction of the EIC.	CFT	35		
2	Sand Filling: Sand filling in foundation trenches and plinth with fine local sand having minimum fineness modulus (FM) of .50 in 150mm / 75 mm la/ers, leveling, watering and consolidating each layer by layer up to finished level, etc. All filling completed as per drawing and design	CFT	38		
3	Polyethylene Sheet: Providing single layer polythene sheet (0.18mm thick) weighting one kilogram per 6.5 square meter in floor or anywhere in ground floor underneath the cement concrete, etc. all complete as per specifications and direction of the engineer-in-charge.	SFT	20		
4	Brick Flat Soling (3"): Single layer of brick flat apron in foundation with 1st class or picked bricks preparation of bed and filling interstices with local sand, etc. All work completed as per direction of engineer-in-charge and as per drawing and design.	SFT	48		
5	Mass Concrete (1:2:4): Plain cement concrete work in foundation or floor with best quality Portland cement, sand (minimum FM 1.20) and 1st class/picked brick chips 20mm downgraded (LAA value not exceeding 40), including shuttering, (Shuttering works in/c centering, leveling, making shuttering fully leak proof, etc. Including all shuttering materials) mixing by concrete mixer machine/manually, casting, laying compacting and curing for 7 days etc. all complete as by EIC.	CFT	17		
6	125mm (5") Brick work with mortar 1:4: 5" Brick work with 1st class bricks in cement mortar (1:4) and making bond with connected walls in/c necessary scaffolding, racking out joints, cleaning and soaking the bricks at least for 24 hours before use, washing of sand, curing for requisite period etc. all complete as per direction of the engineer-in-charge.	SFT	65		
7	12 mm thick plaster with NCF: Plastering interior and outer wall: minimum 1/2 in. thick cement plaster with (1:4) to outer wall; finishing corner and edges; cleaning the surface, plastering work on the outer surface of precast column, all plastering completed as per drawing and design.	SFT	85		
8	0.32 mm thick (Transparent) Corrugated Plastic Sheet for Roofing: Supplying, fitting and fixing 0.32mm thick corrugated plastic sheet (Brand Quality), fitting and fixing on wooden frame with screws or bend nails, all complete and accepted by the EIC.	SFT	49		
9	0.46mm thick (Colored) Plain Galvanized Iron Sheet for Wall Fencing & Door: Supplying, fitting and fixing 0.46mm thick plain galvanized iron sheet (Brand Quality) for fitting and fixing on wooden purlin with screws, limpet washers and putty etc. all complete and accepted by the Engineer-in-charge.	SFT	140		
10	Wood Work (Gorjon/Akashmoni/Mehogini): Timber used for wood work shall be well seasoned, kiln dry containing not more than 8% to 12 % moisture so as to ensure minimum tendency towards warping, shrinking and swellings. It shall be free from all defects such as large or loose knots, shakes, saps, upsets, wane edge and twisted fiber. It shall also be free from all disease such as decay, wet rot, dry rot and woodworms and timber should be finished to the exact dimension shown on the drawing.	CFT	9		
11	10ft Sinch height pre-cast pile (5" x 5" size) with reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.5:3 having minimum f _{cr} = 30 Mpa, and satisfying specified compressive strength f _c = 25 Mpa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM best quality coarse sand (P.M. 2.2), 20 mm down well graded stone chips conforming to ASTM C-33, mixing in standard mixture machine and centering and shuttering with M.S sheet, M.S angle, F.I bar, nuts and bolts, preparation of bed, laying polythene, placing of reinforcement cage in position, casting, compacting, curing etc. including cost of reinforcement, water and other charges as per design and drawing and accepted by the Engineer-In-Charge.	Nos	4		
12	Stud Nail (2.5 inch)	Kgs	2		
13	MS Clamp Size 1-6" x 2.5"x3mm Thickness	Nos	4		
14	Nail Different size (1.5 to 4 inch)	Kgs	1.5		
15	Hinges	Nos	3		
16	Screw for Hinges	Doz	1		
17	Lock Chain (Small for door lock inside & outside)	Nos	2		
18	uPVC pipe (4" dia)	FT	10		
Sub Total for one bathing cubicles					
Sub Total for 34 Bathing Cubicles (in BDT)					
Lump Sum Transport and Carrying Costs to Site					
Overall Total					

Note: It is necessary for the Contractor to make an on-site verification of the actual requirements of the construction works before its implementation. Bill of quantities, work items, measurements and other related works are subject to change, all discrepancies must be reported immediately to the Engineer and shall be concurred before proceeding with the works. Material quality must be ensured as per the specification mentioned in the BoQ by Red Cross representative before using any material.