**AGRAJATTRA**
Regional office, Haque Tower-02, 2nd Floor, Alirzahal, Cox'sbazar.
AGRAJATTRA Tel : +880 31612352, Cell : 00880 1835953696/01822869660, website: http://www.agrajattra.org.bd,

**Bill of Quantities for Bathing cubicles Construction**

| Sl# | Description | Unit | Qty. | Unit Price | Total Price |
|---|---|---|---|---|---|
| 1 | Earth work in excavation of Foundationfor: twin pit latrine, carrying and disposing of all Excavated materials at a safe distance designated by the EIC/UNICEF, all types of soil except rocky gravelly, organic maintains proper slope,disposing of all back filing 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/UNICEF. | Cft | 450 | | |
| 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 layers, leveling, watering and consolidating each layer by layer up to finished level, etc. All filling completed as per direction of engineer-in-charge and as per drawing and design | Cft | 30 | | |
| 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 filing interstices with local sand, etc. All work completed as per direction of engineer-in-charge and as per drawing and design | Sft. | 38 | | |
| 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 per direction of the engineer-in charge. | Cft | 19 | | |
| 6 | Brick work with mortar 14: 5" Brick work with 15t class bricks in cement mortar 1:4)and making bond with connected walls & stair 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. | Cft | 3.36 | | |
| 7 | **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 infc scaffolding, racking out joints, cleaning and soaking the bricks at least for 24 hours before use, washing of sand, curing for requisite period etc. al complete as per direction of the Engineer In charge. | Sft. | 11 | | |
| 8 | **12 mm thick plaster with NCF:** Plastering interior and outer wall: minimum' in. thick cement plaster with (1:4) to outer wall; finishing comer and edges cleaning the surface, plastering work on the outer surface of precast column ,all plastering completed as per direction of engineer-in-charge and as per design. | Sft. | 174 | | |
| 9 | **0:32 mm thick (Colored) Cornugated Plastic Sheet for Roofing:** Supplying, and fixing 0.32mm thick corrugated plastic sheet (Brand Quality), fitting and on wooden frame with screws. all complete and. accepted by the Engineer. | Sft. | 56 | | |
| 10 | **0.51 mm/24 gauge thick (Colored) Plain Galvanized Iron Sheet for Wall & Door:** Supplying, fitting and fixing 0.51 mm /24 gauge thick plain iron sheet (Brand Quality) for fitting and fixing on wooden purlin.Impet washers and putty etc. all complete and accepted by the Engineer. | Sft. | 138 | | |
| 11 | **Wood Work (Gorjon/Akashmoni/Mehogin):** 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 white and timber should be finished to the exact dimension shown on the drawing or as per Engineer direction. | Cft | 7.2 | | |

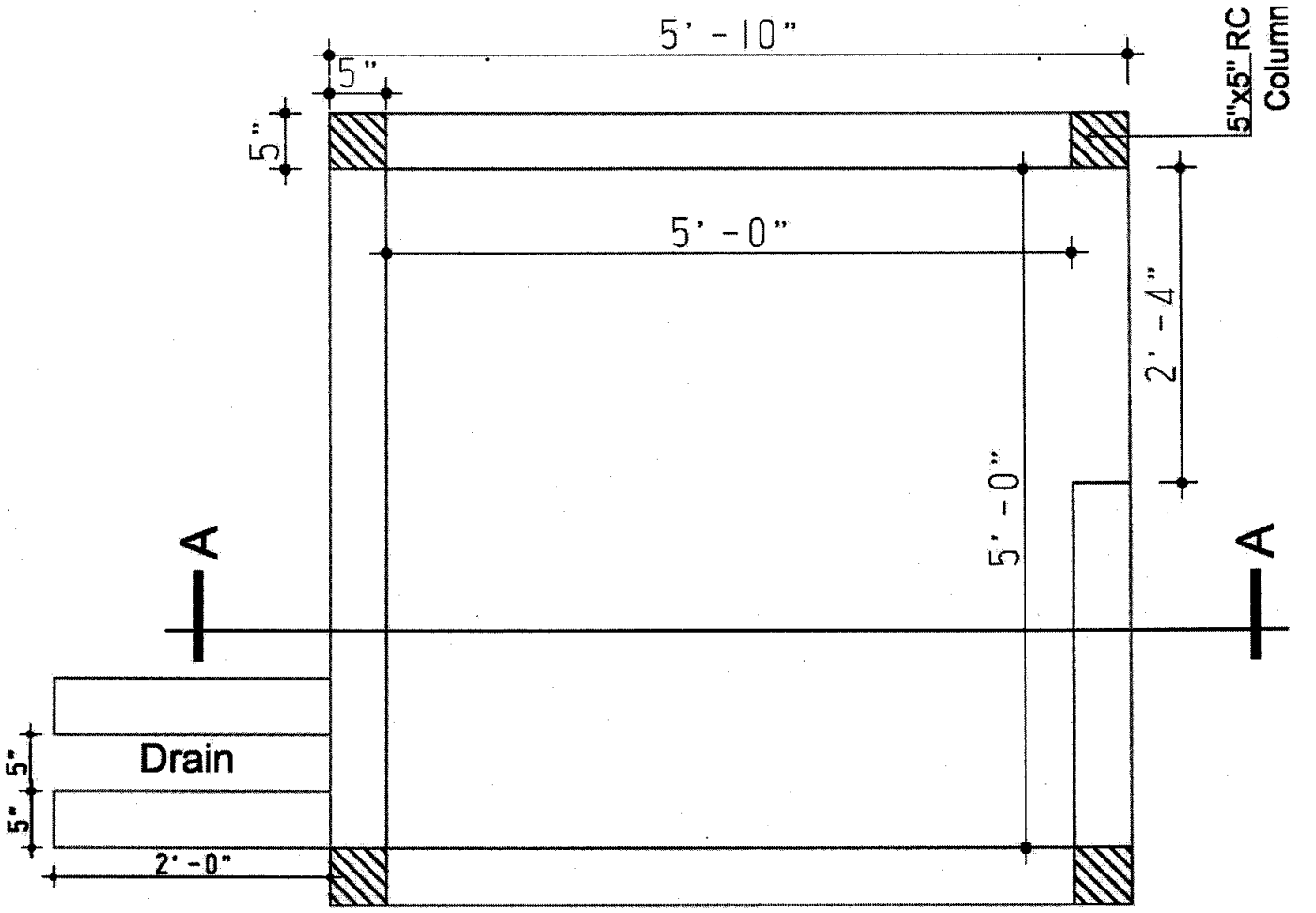
| | | | | | |
|---|---|---|---|---|---|
| 12 | **10ft 6 inch height pre-cast pile (5" x 6" size):** with reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.5:3 having minimum f'cr = 30 Mpa, and satisfying specified compressive strength f'cr = 25 Mpa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM best quality coarse sand (F.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 by vibrators and tapered rods, curing for 28 days etc. including cost of reinforcement, water, electricity and other charges as per design and drawing etc. all complete as per design, drawing and accepted by the Engineer. | Nos | 4 | | |
| 13 | Supply, fittings & fixing of pre-cast ring cover 5'x4', thikness-3" made of 1:2:4)mixing ratio, mm dia ms rod (60G) 6" C/C both way as per the drawing and instruction of EIC. | Nos | 2 | | |
| 14 | Other supplies & Accessories fitting ,fixing & supplying | | | | |
| 15 | Stud Nail (2.5 inch) | Kg | 2 | | |
| 16 | MS Clamp Size 1-6"X2.5"X3mm Thickness | Nos | 4 | | |
| 17 | Nail Diferent size (1.5 to 4") | Kg | 1.5 | | |
| 18 | Hinges | Nos | 3 | | |
| 19 | Screw for Hinges | Dozen | 1 | | |
| 20 | Lock Chain (small for door lock inside & out side) | Nos | 2 | | |
| 21 | PVC pipe (1.5 dia) Gas pipe | F.t | 20 | | |
| 22 | uPVC Long Trap (4"dia) | Nos | 1 | | |
| 23 | uPVC pipe (4" dia) | Ft. | 4 | | |
| | | | | **Total Price=** | |

S.M. Abu Sufian
Technical Officer (WASH)
BRAC Pooled Found
AGRAJATTRA

S.M. ABU SUFIAN

Engineer Wash

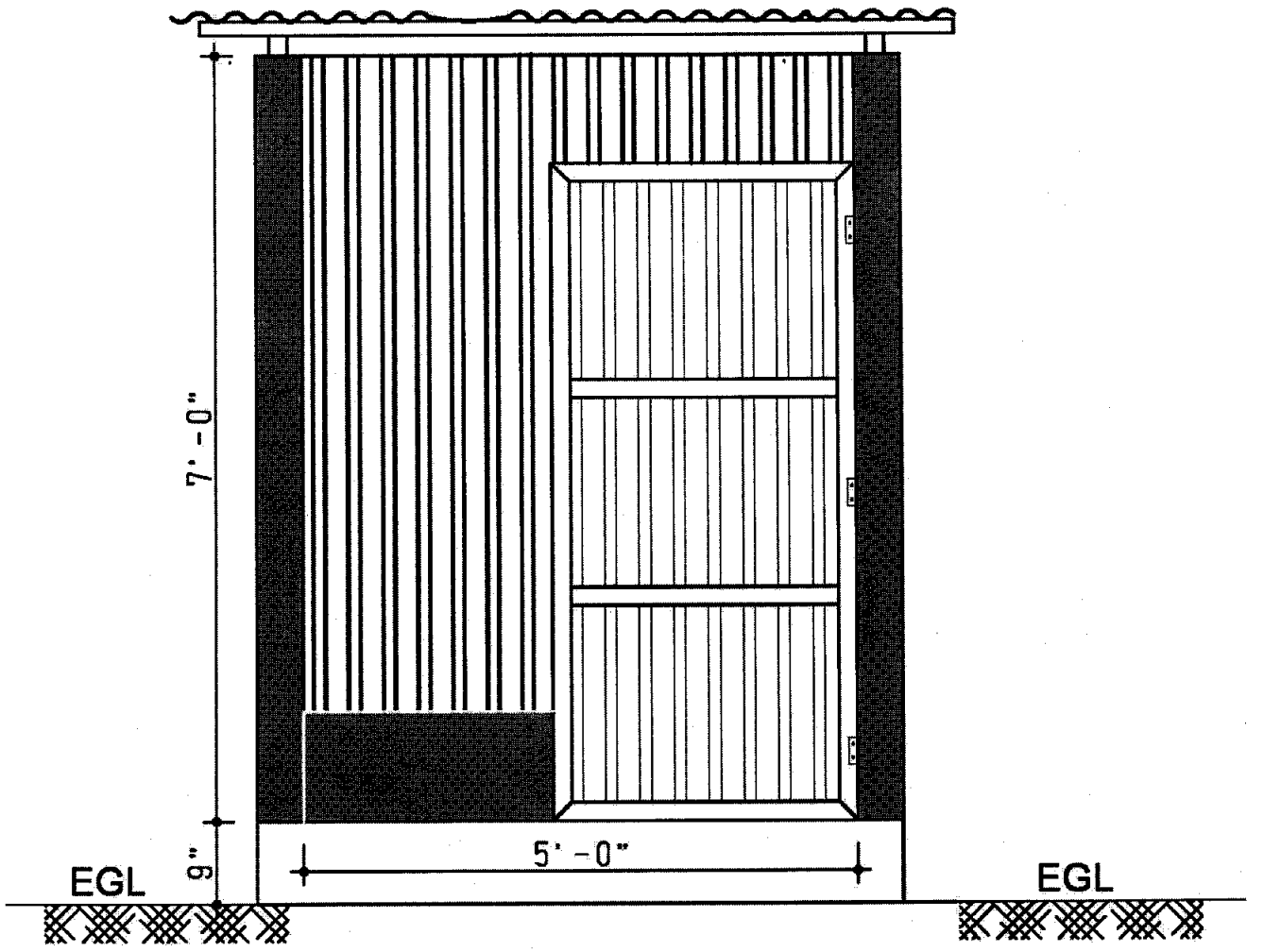
**Prepared by**




# PLAN OF BATH-HOUSE

| | | Project | Model | Designed by | Checked By | Drawing Title | Date | Page | On Behalf of WASH Sector Developed by |
|---|---|---|---|---|---|---|---|---|---|
| | WASH Sector Cox's Bazar | Design and Drawing of Bath-house | Bath-house | Minhaj Uddin Ahmed UNHCR | ABM Sadiqur Rahman UNHCR | Plan | 17-01-2018 | 01 | UNHCR United Nations High Commissioner for Refugees Haut Commissariat des Nations Unies pour les réfugiés |

6.5.2018
S.M. ABU SUFIAN
Project Engineer
AGRAJATTRA




# FRONT ELEVATION

| | | Project | Model | Designed by | Checked By | Drawing Title | Date | Page | On Behalf of WASH Sector Developed by |
|---|---|---|---|---|---|---|---|---|---|
| | WASH Sector Cox's Bazar | Design and Drawing of Bath-house | Bath-house | Minhaj Uddin Ahmed UNHCR | ABM Sadiqur Rahman UNHCR | Front Elevation | 17-01-2018 | 02 | UNHCR United Nations High Commissioner for Refugees Haut Commissariat des Nations Unies pour les réfugiés |

6.5.2023
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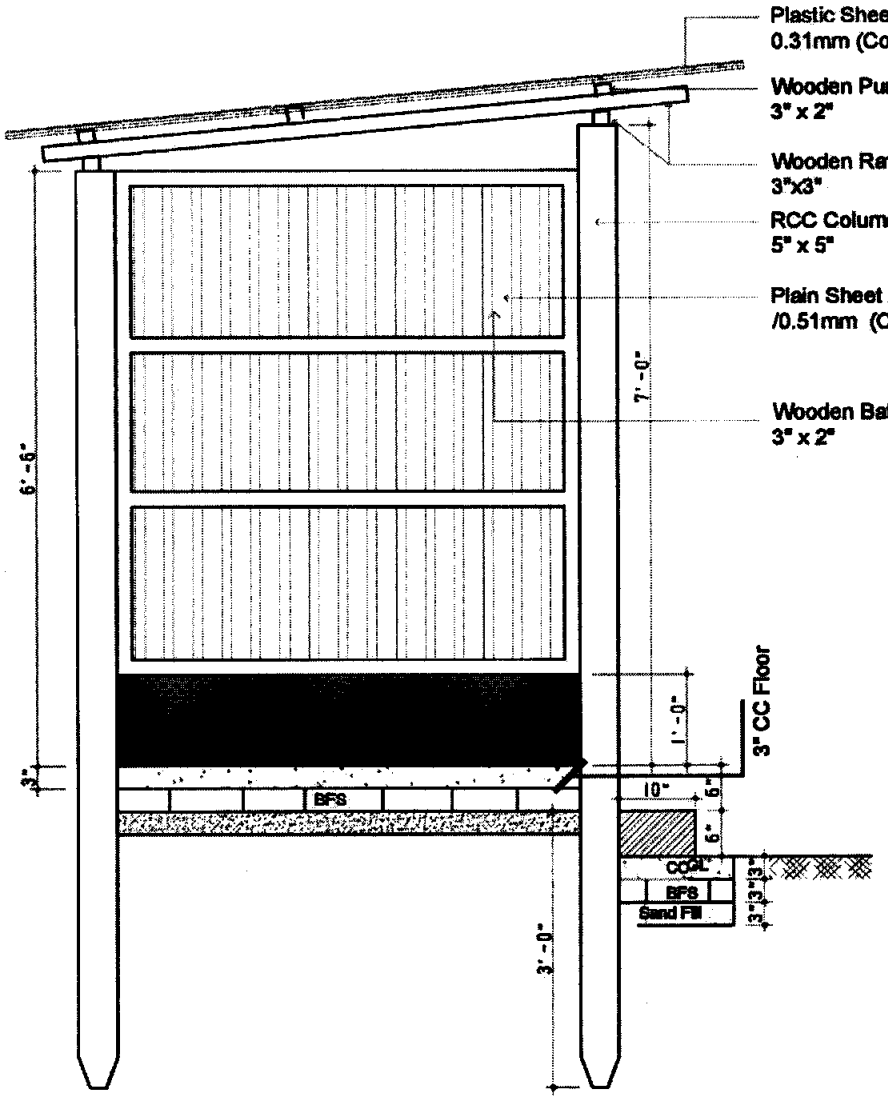


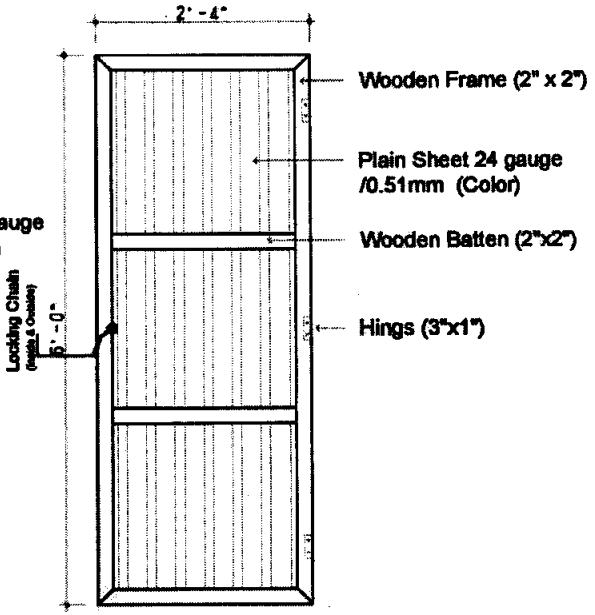


**Door Elevation**

# A-A SECTION

| | | Project | Model | Designed by | Checked By | Drawing Title | Date | Page | On Behalf of WASH Sector Developed by |
|---|---|---|---|---|---|---|---|---|---|
| | WASH Sector Cox's Bazar | Design and Drawing of Bath-house | Bath-house | Minhaj Uddin Ahmed UNHCR | ABM Sadiqur Rahman UNHCR | Section A-A | 17-01-2018 | 03 | UNHCR United Nations High Commissioner for Refugees |

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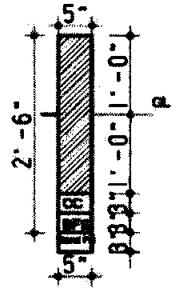


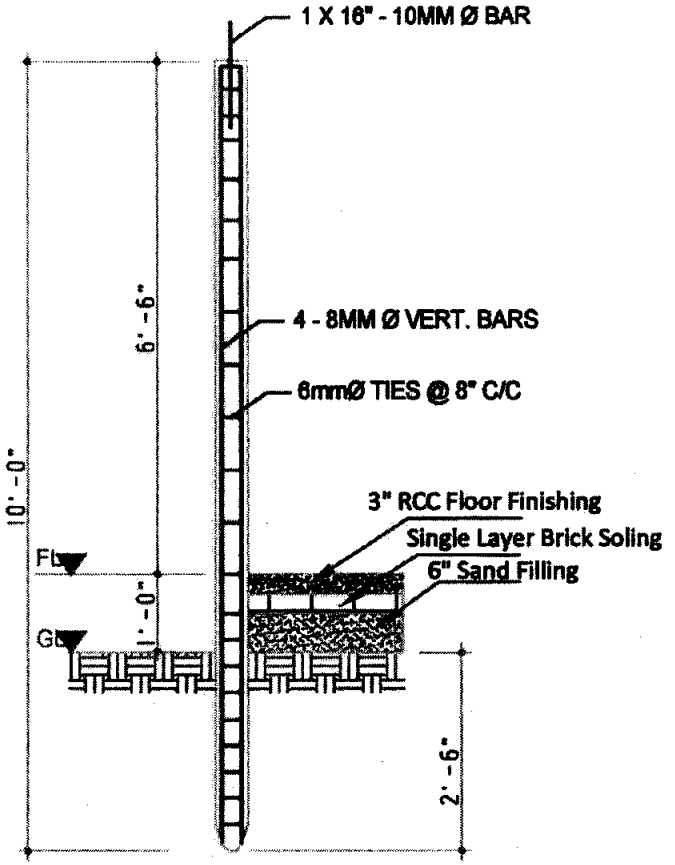


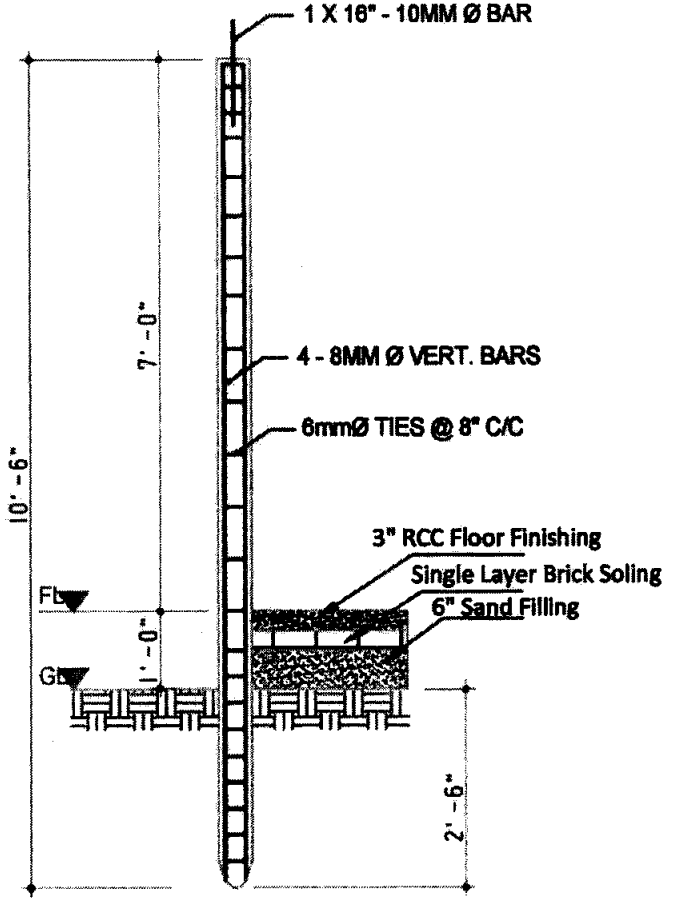


# DETAIL OF R.C.C POST

| | | Project | Model | Designed by | Checked By | Drawing Title | Date | Page | On Behalf of WASH Sector Developed by |
|---|---|---|---|---|---|---|---|---|---|
| | WASH Sector Cox's Bazar | Design and Drawing of Bath-house | Bath-house | Minhaj Uddin Ahmed UNHCR | ABM Sadiqur Rahman UNHCR | Column Details | 17-01-2018 | 04 | UNHCR United Nations High Commissioner for Refugees Haut Commissariat des Nations Unies pour les réfugiés |

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