

Bill of Quantities

Name of Works: Construction of toilet for PSTP store with related works.

IFT No.: 46.113.433.00.00.076.25-20, Package No.: RW40, Lot No.: Single

Sl. No.	Description of work	Quantity	Unit	Rate	Total Amount
1.	Mobilization and cleaning site before commencing actual physical work and during contract period and demobilization after completion of the works under contract to be accepted by the Engineer-in-charge. This work shall also cover cleaning and clearing, cutting or filling, dressing the project area on and in the ground to an extent that all the events of works of the project can be executed smoothly in a working environment with a particular attention on safety and security in all respects, and to stockpile the end outcome to a place for disposal agreed by the Engineer-in-charge, where, payments are to be based on ground area determined by the Engineer-in-charge and be proportionate to the percentage progress of work under contract as a whole in all respects and approved by the Engineer-in-charge.	sqm	40.00	62.001	2480.04
2.	Earth work in excavation in all kinds of soil for foundation trenches including layout, providing center lines, local bench-mark pillars, levelling, ramming and preparing the base, fixing bamboo spikes and marking layout with chalk powder, providing necessary tools and plants, protecting and maintaining the trench dry etc., stacking, cleaning the excavated earth at a safe distance out of the area enclosed by the layout etc. all complete and accepted by the Engineer-in-charge, subject to submit method statement of carrying out excavation work to the Engineer-in-charge for approval. However, engineer's approval shall not relieve the contractor of his responsibilities and obligations under the contract. Earthwork in excavation in foundation trenches up to 1.5 m depth and maximum 10 m lead.	cum	8.99	168.001	1510.329
3.	Sand filling in foundation trenches and plinth with sand having minimum F.M. 0.5 in 150 mm layers including leveling, watering and compaction to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge.	cum	21.57	1088.001	23468.182
4.	One layer brick flat soling in foundation or in floor with sand cement solid block (SCSB) (240x114x70)mm including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge	sqm	24.92	518.001	12908.585
5.	Mass concrete (1:2:4) in foundation or in floor with cement,sand (F.M. 1.2) and picked jhama brick chips includingbreaking of chips, screening, mixing, laying, compacting torequired level and curing for at least 7 days including thesupply of water, electricity, costs of tools & plants and othercharges etc. all complete and accepted by Engineer-in-charge. Mass concrete in foundation (1:2:4) with brick chips and local sand of F.M. 1.2	Cum	2.52	10504.001	26470.083



6.	Brick works with first class bricks with cement sand (F.M.1.2) mortar (1:6) in foundation and plinth, filling the joints / interstices fully with mortar, racking out the joints, cleaning and soaking the bricks at least for 24 hours before use and curing at least for 7 days etc. all complete including cost of water, electricity and other charges and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M)	cum	8.85	9140.000	80889
7.	FORMWORK (Wooden) for boundary wall, gate, centry post etc. Pedestals, column, wall	sqm	3.05	526.001	1604.303
8.	Grade 400 (B400DWR / B420DWR: complying BDS ISO 6935-2:2016 / ASTM A615) ribbed or deformed bar produced and marked according to Bangladesh standard, with minimum yield strength, f_y (R_{eH}) = 400 MPa but f_y not exceeding 480 MPa and whatever is the actual yield strength within allowable limit as per BNBC/ ACI 318, the ratio of ultimate tensile strength f_u to yield strength f_y , shall be at least 1.25 and minimum elongation after fracture and minimum total elongation at maximum force is 17% and 8% respectively : up to ground floor.	kg	39.54	121.001	4784.38
9.	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4 having maximum water cement ratio = 0.40 and minimum f_{cr} = 30.5 MPa, satisfying a specified compressive strength f_c = 22 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), conducting necessary tests, making and placing shutter in position maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing in standard mixer machine with hopper fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). Pedestals, column, column capital, lift wall and RCC wall up to ground floor	cum	0.44	13863.001	6099.72
10.	125 mm brick works with first class bricks with cement sand (F.M. 1.2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) . In ground floor	Sqm	48.99	1408.001	68977.969
11.	Stripping of unserviceable plaster including racking out joints, cleaning etc.	Sqm	90.13	31.001	2794.12

12.	Minimum 12 mm thick cement sand (F.M. 1:2) plaster with neat cement finishing to dado (1:4) with cement up to 150 mm below ground level with neat cement finishing including washing of sand, finishing the edges and corners and curing at least for 7 days, cost of water, electricity and other charges etc. all complete in all respect as per drawing and accepted by the Engineer. (Cement: CEM-II/A-M)	sqm	204.10	335.001	68373.704
13.	Exterior premium acrylic emulsion paint of approved best quality and color with high performance against dirt picking tendency and efflorescence resistance properties along with water resisting properties and resistance properties against fungi, fading and flaking from authorized local agent of the manufacturer in a sealed container; applying to exterior surface with surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary exterior sealer of specified brand on prepared surface; then applying necessary exterior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of exterior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge.	sqm	151.87	298.001	45257.412
14.	Supplying, fitting and fixing country made glazed wall tiles complying BDS ISO 13006: 2015, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1:2) mortar (1:3) base and raking out the joints with white cement including cutting, laying and hire charge of machine and finishing with care etc. including cost of water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor. Border wall tiles of any size.	sqm	61.85	4435.001	274304.812
15.	Supplying, fitting and fixing country made GP (Gress Porcellanto) - glazed or unglazed homogeneous floor tiles complying BDS ISO 13006: 2015, water absorption $\leq 0.5\%$, modulus of rupture (MOR) ≥ 27 N/mm ² , irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1:2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor. GP (homogeneous) 300 mm x 300 mm floor tiles	Sqm	26.69	1347.001	35951.457
16.	Supply and installation of 0.457 mm thick corrugated galvanized iron sheet (Bangladesh made) having min weight 63-65 kg per bundle (2'-6" width, 70 – 72 rft long) fitted and fixed on M.S. sections with 'J' hook or wooden purlin with screws, limpet washers and putty etc. (up to level-4) all complete and accepted by the Engineer-in-charge.	sqm	79.53	578.001	45968.42
17.	Supply and installation of double bubble foil insulation at wall and roof of nominal thickness of 8 mm conforming to Class A in accordance with the ASTM-E84-09 fire test standard, including the cost of lapping, Scotch tape, adhesive and necessary accessories, all complete as per drawing, specification and direction of Engineer-in-charge.	sqm	79.53	251.001	19962.11

18.	Supplying, fitting and fixing of food graded plastic overhead water reservoir /tank including all necessary fittings,hardware and consumables etc. all complete approved and accepted by the Engineer- in- charge.5000 liter capacity	Each	1.00	47827.001	47827.001
19.	Supply of Sandal Apex/Bata or any other brand approved by the engineer.	Pair	8.00	550.001	4400.008
20.	Supplying, fitting and fixing of best quality surface mounted or conceal stop cock/angle stop cock (lever or round headed) with wall flange chromium plated. The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 MPa or under. The faucet after it has been operated 100000 times it shall be free from a seat-leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron. The faucet shall be made. leak proof and fixing in position with selected tape etc. all complete approved and accepted by the Engineer-in-charge.12 mm dia CP Concealed Stop Cock .	each	2.00	1153.001	2306.002
21.	Stainless steel toilet paper holder	each	2.00	563.001	1126.002
22.	Supplying of country made glazed vitreous W/H wash basin of any color including pedestal. Approx. 550 x 470 mm, minimum weight 34.0 kg	each	1.00	10357.001	10357.001
23	Supplying, fitting and fixing of country made European type special quality combi closet (one piece) including inbuilt flushing unit, of white color, including plastic seat cover with soft closing ,cistern system, water consumption 6 litre, siphon jet single flushing system which reduce water consumption, hygienic glaze in toilet bowl ,glaze in inner waste line, round bowl, outlet range 280~305 mm. The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm,and accepted by the Engineer-in-charge. Approx. 760~735 X 430~490 mm size, minimum 40 kg of weight, Equivalent to Stella: Viola/ COTTO: C1026 or similar brand.	each	2.00	31816.001	63632.002
24	Supplying, fitting and fixing of best quality country made 12 mm bib cock made from copper or copper alloy, chromium plated. The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 MPa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final	each	1.00	1172.001	1172.001



	coating should be done with chromium of minimum 0.1 micron. The faucet shall be made leak proof and fixing in position with selected tape etc. all complete approved and accepted by the Engineer- in- charge. Lever CP Conceal Bib Cock long body with aerator (Oliver/ spoon/ delta/ decent lever or similar)				
25.	Supplying, laying, fitting and fixing of best quality HDPE soil, waste and ventilation pipe having PE-100 (Hydrostatic Strength for PE-100 is 5.0 MPa & 12.4 MPa at 80°c & 20°c respectively according to ISO 4427:2007(E), PN-6 (nominal pressure for PN-6 is 0.6 MPa according to ISO 4427:2007(E) & SDR 26 for soil, waste and ventilation pressure pipe having density 0.940 – 0.970 gm/cm3 and other physical, chemical,thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards orASTM/BS/ISO/IS standards ,fitted and fixed in position with necessary joints and fittings with all accessories complete approved and accepted by the Engineer-in-charge. DPE pipe of 110 mm outside dia with wall thickness 4.2 mm - 4.8 mm	meter	45.00	1513.001	68085.248
26.	Surface conduit wiring for following point. Light/Exhaust or wall bracket fan point	Each	8.00	1179.001	9432.01
27.	Supplying, fitting and fixing metal door 2000 mm x 760 mm all complete and accepted by the Engineer-in-charge. (Rate is excluding the costs of painting)	Each	1.00	38000.001	38000.001
28.	Supply, fitting and fixing 2.5 HP water pump. r.p.m 2850 r/min, v 220, Qmax 50 l/min.	each	1.00	18028.001	18028.001
29.	Providing Safety measures, site cleaning etc. as per direction of the engineer-in-charge.	L.S.	1.00	10000.001	10000.001
		Grand Total Tk=			996169.902
Taka In words : Nine Lac Ninety Six Thousand One Hundred Sixty Nine point Nine Zero Two only.					

Tender Price quoted by the Tenderer: []% (percent) above / below / at par the total estimated cost in the **BOQ**

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This Bill of Quantities contains [insert number] corrections duly initialled and signed by the Tenderer

Note

1. It is suggested that the Tenderer uses these sheets of the BOQ in order to avoid any manipulation, distortion and inadvertent mistakes or omissions in course of preparing the Tender by the Tenderer
2. Tenderer's profit, overheads, VAT and all other charges including corresponding incidental service charges for banking shall be deemed included in all the unit rates and prices in the BOQ against each basic item or activity and, thus forth the total Tender Price quoted by the Tenderers.
3. Follow the Guidance notes under **Section 6** in filling this Schedule