

ASHIK ENTERPRISE**Section 6. Bill of Quantities****Bill of Quantities**

Bill of Quantities

Item no.	Group	Item Code (if any)	Description of Item	Measurement Unit	Quantity	Unit Price (In figures: BDT)	Unit Price (In words: BDT)	Total Price (In figures: BDT)	Total Price (In words: BDT)
1	-	N/A	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 covers clayey 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	29.768	170.001	One Hundred and Seventy point Zero Zero One	5060.590	Five Thousand AND Sixty point Five Nine
2	-	N/A	Layout and marking for earthwork in excavation in foundation accepted by the Engineer-in-charge. [Plinth area of the structure shall be considered for measurement]	sqm	29.768	13.001	Thirteen point Zero Zero One	387.014	Three Hundred and Eighty-Seven point Zero One Four
3	-	N/A	Earthwork in excavation in foundation trenches up to 1.5 m depth and maximum 10 m lead: in very stiff (hard) clayey soil/ rubbish etc.	cum	21.863	180.001	One Hundred and Eighty point Zero Zero One	3935.362	Three Thousand Nine Hundred and Thirty-Five point Three Six Two
4	-	N/A	Sand filling in foundation trenches and plinth with sand having minimum F.M. 1.2 in 150 mm in layers including leveling,	cum	24.950	910.001	Nine Hundred and Ten	22704.525	Twenty-Two Thousand Seven

			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.				point Zero Zero One		Hundred and Four point Five Two Five
5	-	N/A	One layer brick flat soling in foundation or in floor with first class/picked jhama bricks including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge	sqm	65.444	420.001	Four Hundred and Twenty point Zero Zero One	27486.545	Twenty-Seven Thousand Four Hundred and Eighty-Six point Five Four Five
6	-	N/A	Mass concrete (1:2:4) in foundation or in floor with cement, sand (F.M. 1.2) and picked jhama brick chips including breaking of chips, screening, mixing, laying, compacting to required level and curing for at least 7 days including the supply of water, electricity, costs of tools & plants and other charges etc. all complete and accepted by Engineer-in-charge. (Cement: CEM-II/A-M). Mass concrete in foundation (1:2:4) with brick chips and local sand of F.M. 1.2.	cum	3.097	7640.001	Seven Thousand Six Hundred and Forty point Zero Zero One	23661.083	Twenty-Three Thousand Six Hundred and Sixty-One point Zero Eight Three
7	-	N/A	Supplying and laying of single layer polythene sheet weighing one kilogram per 6.5 square meter in floor or any where below cement concrete complete in all respect and accepted by Engineer-in-charge.	sqm	44.408	40.001	Forty point Zero Zero One	1776.364	One Thousand Seven Hundred and Seventy-Six point Three Six Four
8	-	N/A	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4 having minimum $f_{cr} = 24$ MPa, satisfying a specified compressive strength $f'_c = 19$ 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 sand [50% quantity of best local sand (F.M. 1.2) and 50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2] and 20 mm down well graded picked jhama brick chips conforming to ASTM C-33 including breaking chips and screening, making and placing shutter in position maintaining	cum	9.391	7700.001	Seven Thousand Seven Hundred point Zero Zero One	72310.709	Seventy-Two Thousand Three Hundred and Ten point Seven Zero Nine

			true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing in standard mixer machine with hopper fed by standard measuring boxes or mixing in batching plant, 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, testing charges of materials and cylinders as required, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). Pedestal, column, column capital, lift wall and wall up to ground floor.						
9	-	N/A	FORMWORK (Wooden) for boundary wall, gate, centry post etc. Centering and shuttering, including strutting, propping etc. and removal of form for: Padestals, column, wall.	sqm	69.410	420.001	Four Hundred and Twenty point Zero Zero One	29152.269	Twenty-Nine Thousand One Hundred and Fifty-Two point Two Six Nine
10	-	N/A	Grade 400 (RB 400 /RB 400W: complying BDS ISO 6935-2:2006) ribbed or deformed bar produced and marked according to Bangladesh standard, with minimum yield strength, fy (ReH)= 400 MPa but fy not exceeding 450 MPa and whatever is the yield strength within allowable limit as per BNBC/ ACI 318, the ratio of ultimate tensile strength fu to yield strength fy, shall be at least 1.25 and minimum elongation after fracture and minimum total elongation at maximum force is 16% and 8% respectively : up to ground floor.	kg	978.822	75.001	Seventy-Five point Zero Zero One	73412.629	Seventy-Three Thousand Four Hundred and Twelve point Six Two Nine
11	-	N/A	Mild steel, grade 250 with minimum fy = 250 MPa, work in roof truss: supplying and fabrication of mild steel sections as per design, hoisting, fitting and fixing in position with bolt and nuts or rivets or welds and providing two coats of anti-corrosive paint over a prime coat of red oxide paint etc. complete and accepted by the Engineer-incharge.(Measurement to be given for truss member only).	kg	1164.590	130.001	One Hundred and Thirty point Zero Zero One	151397.865	One Lakh Fifty-One Thousand Three Hundred and Ninety-Seven point Eight Six Five
12	-	N/A	Supply and installation of 0.47 mm thick zinc alum color coated	kg	186.007	200.001	Two Hundred	37201.586	Thirty-Seven

			profile sheet for roof, wall, caping, flashing, trimming, gutter etc. conforming to ASTM A792, Grade: 80, AZ150 gm/m2, including the cost of necessary accessories (sheeting screws with washers, silicon sealant etc.), testing of materials etc. all complete as per drawing specification and direction of Engineer-in-charge.				point Zero Zero One		Thousand Two Hundred and One point Five Eight Six
13	-	N/A	Minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:4) with fresh cement to both inner-and outer surface of wall, finishing the corner and edges including washing of sand, cleaning the surface, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/A-M) ground floor.	sqm	8.586	240.001	Two Hundred and Forty point Zero Zero One	2060.649	Two Thousand AND Sixty point Six Four Nine
14	-	N/A	"Standard synthetic enamel paint of approved best quality and colour delivered from authorized local agent of the manufacturer (Berger jhilik synthetic enamel/Elite quick drying/Asian decora synthetic enamel or equivalent brand) in a sealed container, having high water resistance, high bondability, flexibility property; using specified brand thinner applying to metallic or wooden surface by brass/roller/spray in 2 coats over single coat anti-corrosive coating including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, all complete in all floors and accepted by the Engineer-in-charge."	sqm	29.768	180.001	One Hundred and Eighty point Zero Zero One	5358.270	Five Thousand Three Hundred and Fifty-Eight point Two Seven
15	-	N/A	Concealed conduit wiring for following point looping at the switch board with earth terminal with 1C-2x1.5 sqmm PVC insulated and sheathed stranded cable (BYM) & same size PVC insulated ECC (BYA) (Green / White color) including circuit wiring with 1C-2x2.5 sqmm PVC insulated and sheathed stranded cable (BYM) & same size PVC insulated ECC (BYA) Green / White color through PVC conduit (one conduit from switch board to common point on ceiling is considered to draw 3 pair of cable) of reputed manufacturer of minimum 25 mm Dia. & 1.5 mm wall thickness complete with 18 SWG GP sheet / PVC switch	point	3.000	900.001	Nine Hundred point Zero Zero One	2700.003	Two Thousand Seven Hundred point Zero Zero Three

			board & pull box with 3mm thick ebonite sheet cover, without switch, fixing materials etc. (without switch) as required including mending the damages good. All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and tested according to relevant IEC / BDS / BS / VDE standards and as per detailed specification mentioned in Annexure-1. The work shall be carried out as per direction & approval of the Engineer. Cables manufactured by govt. of BANGLADESH owned / shared company Ltd. (Eastern cables) approved by the Engineer. Light / exhaust or wall bracket fan point.						
16	-	N/A	Channel wiring (BYM) 1.2.1 Surface channel wiring with the following PVC insulated and sheathed stranded cable (BYM) & Green / White colour PVC insulated ECC wire (BYA), through minimum 1 mm thick PVC channel complete with fixing materials, other accessories etc. as required including mending the damages good. All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and tested according to relevant IEC / BDS / BS / VDE standards and as per detailed specification mentioned in Annexure-1. The work shall be carried out as per direction & approval of the Engineer. Cables manufactured by govt. of BANGLADESH owned / shared company Ltd. (Eastern cables) approved by the Engineer. 1C-2x1.5 sqmm (BYM) cable with 1.5 sqmm (BYA) ECC wire.	m	3.000	95.001	Ninety-Five point Zero Zero One	285.003	Two Hundred and Eighty-Five point Zero Zero Three
17	-	N/A	Channel wiring (BYM) 1.2.1 Surface channel wiring with the following PVC insulated and sheathed stranded cable (BYM) & Green / White colour PVC insulated ECC wire (BYA), through minimum 1 mm thick PVC channel complete with fixing materials, other accessories etc. as required including mending the damages good. All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) and cables shall be	m	30.000	130.001	One Hundred and Thirty point Zero Zero One	3900.030	Three Thousand Nine Hundred point Zero Three

			manufactured and tested according to relevant IEC / BDS / BS / VDE standards and as per detailed specification mentioned in Annexure-1. The work shall be carried out as per direction & approval of the Engineer. Cables manufactured by govt. of BANGLADESH owned / shared company ltd. (Eastern cables) approved by the Engineer. 1C-2x2.5 sqmm (BYM) cable with 2.5 sqmm (BYA) ECC wire.						
18	-	N/A	Providing & fixing 250 volts. 5 / 6 amps (minimum) concealed type following switch / switch socket manufactured and tested in accordance with relevant IEC / VDE / NEMA / BS / JIS standards mounted on required size 18 SWG galvanized plain sheet / PVC board (Self-extinguishing 650oC) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. (Manufacturer shall have certificate of standard which they follow). Made in ENGLAND / GERMANY / JAPAN / USA or EU countries. Four gang switch.	each	4.000	800.001	Eight Hundred point Zero Zero One	3200.004	Three Thousand Two Hundred point Zero Zero Four
19	-	N/A	Providing & fixing the 1 x 4' x 40 watt fluorescent tube light fitting of following manufacturers model & catalogue number with superior quality electronic ballast of one year guarantee, holder, necessary wiring with 2 X 0.4 sq. mm PVC insulated (stranded) flexible FR wire, earth terminal etc. (except lamp) complete sample accepted /approved by the Engineer. GLORIA cat No. GTF.755x1x40 watt Dgn or equivalent product of ENERGY+, CRESCENT, SHWASH, ASHA.	each	3.000	900.001	Nine Hundred point Zero Zero One	2700.003	Two Thousand Seven Hundred point Zero Zero Three
20	-	N/A	Providing & fixing 250 volt single phase universal combined switch socket outlet (surface / concealed type) manufactured and tested in accordance with relevant IEC / VDE / NEMA / BS / JIS standards mounted on required size 18 SWG galvanized plain sheet board / plastic board (self-extinguishing 650oC) of 76.2 mm. (3") depth. Sample to be approved by the engineer. (Manufacturer shall have certificate of standard which they follow). 13 / 15 / 16 / 20 Amps. Made in ENGLAND / GERMANY / JAPAN / USA or EU countries.	each	4.000	1100.001	One Thousand One Hundred point Zero Zero One	4400.004	Four Thousand Four Hundred point Zero Zero Four
21	-	N/A	Safety measure item (gum boot = 3 pairs, visible vest = 3 nos ,	item	1.000	9325.995	Nine Thousand	9325.995	Nine Thousand

			helmet = 3 nos, hand gloves =3 pairs etc) & net (hessian cloth = 3 pcs , Fly proof net = 3 pcs, safety belt = 2 nos etc) around construction work place (along the height of the building) where public safety is likely to be endangered due to construction activities; which shall be supported using scaffolding around the building for brick work/ plaster; including fitting and fixing in position providing necessary anchors, wires, ties etc. all complete and accepted by the Engineer-in-charge.				Three Hundred and Twenty-Five point Nine Nine Five		Three Hundred and Twenty-Five point Nine Nine Five
							Grand Total:	482416.502	Four Lakh Eighty-Two Thousand Four Hundred and Sixteen point Five Zero Two

*** Note: All applicable taxes, custom duties, VAT and other levies payable by the Contractor under the Contract shall be included in the unit prices submitted by the Tenderer.**

This Section 6. Bill of Quantities is Electronically Signed by Mr. Mir Ashikul Alam on behalf of ASHIK ENTERPRISE