

M/s. Vola Enterprise

Section 6. Bill of Quantities

Reconstruction of visitors waiting room and kitchen with related works at PSTP office compound as per direction of the Engineer. The complete/running works will be accepted after joint Inspection of EE, AE, and SAE of PSTP Division and EE, P&D (sewer) Division in presence of SE, W&STP Circle. The contractor will provide free service during defect liability period of 6 (six) months of concerning any problem of this work.

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	N/A	Dismantling of unserviceable/damaged brick works (with cement or lime mortar) of thickness 75/125 mm in foundation and superstructure and removal of debris to a safe distance.	sqm	324.205	55.813	Fifty-Five point Eight One Three	18094.854	Eighteen Thousand AND Ninety-Four point Eight Five Four
2	N/A	N/A	Dismantling of R.C.C. beam, lintel, column, drop wall, sun shade from any height and removal of debris to a safe distance.	cum	2.360	3535.987	Three Thousand Five Hundred and Thirty-Five point Nine Eight Seven	8344.929	Eight Thousand Three Hundred and Forty-Four point Nine Two Nine
3	N/A	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	83.690	17.105	Seventeen point One Zero Five	1431.517	One Thousand Four Hundred and Thirty-One point Five One Seven
4	N/A	N/A	Pre-cast driven micro-pile with reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.25:2.5 having minimum $f_{cr} = 35$ MPa, and satisfying a specified compressive strength $f_c = 30$ 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 (32.5 to 52.5 N) / ASTM-C 150 Type I, best quality coarse sand (F.M.2.5) and 20 mm down well-graded crushed stone chips conforming to ASTM	m	114.000	536.521	Five Hundred and Thirty-Six point Five Two One	61163.394	Sixty-One Thousand One Hundred and Sixty-Three point Three Nine Four

C-33, mixing in standard mixture machine with hopper and fed by standard measuring boxes, including cost of breaking chips, screening through proper sieves, cleaning and washing, 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, casting, compacting by vibrators and tapered rods, curing for 28 days etc. including cost of water, electricity and other charges, providing pile shoe as per design and drawing, driving the pile up to the design depth as per standard practice or specified method providing head cushion, all equipments including mobilization, demobilization and hire charge of driving set, champering, test of materials and concrete etc. including carrying all complete approved and accepted by the Engineer-in-charge. (Rate is excluding the cost of reinforcement and its fabrication, binding, welding and placing).
Casting of 180 mm x 180 mm x 7.6 m Pile with reinforced cement concrete (1:1.25:2.5) with stone chips.

5	N/A	N/A	Pre-cast pile shoe making & supplying pre-fabricated frustum of square cone having four sides and a toe made of 6 mm thick ASTM A36 complied MS steel plate jointed by line welding, 4 nos 12 mm dia deformed MS bar jointed by line welding with MS plate along the four edges of shoe aligning the corner main bar of the pile and 1-12mm dia bar to fix with and perpendicular to shoe toe plate aligning centre of pile, including cutting, shaping, sizing of MS plate and bar, all complete as per design & drawing and accepted by the Engineer-in-charge. Driving of 180 mm x 180 mm x 7.6 m pre-cast pile	each	15.000	2896.845	Two Thousand Eight Hundred and Ninety-Six point Eight Four Five	43452.675	Forty-Three Thousand Four Hundred and Fifty-Two point Six Seven Five
6	N/A	N/A	Mobilization and demobilization of drop hammer type pre-cast pile driving rig.	set	1.000	10769.994	Ten Thousand Seven Hundred	10769.994	Ten Thousand Seven Hundred

							and Sixty- Nine point Nine Nine Four		and Sixty- Nine point Nine Nine Four
7	N/A	N/A	Pre-cast driven micro-pile with reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.25:2.5 having minimum $f_{cr} = 35$ MPa, and satisfying a specified compressive strength $f'_c = 30$ 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 (32.5 to 52.5 N) / ASTM-C 150 Type I, best quality coarse sand (F.M.2.5) and 20 mm down well-graded crushed stone chips conforming to ASTM C-33, mixing in standard mixture machine with hopper and fed by standard measuring boxes, including cost of breaking chips, screening through proper sieves, cleaning and washing, 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, casting, compacting by vibrators and tapered rods, curing for 28 days etc. including cost of water, electricity and other charges, providing pile shoe as per design and drawing, driving the pile up to the design depth as per standard practice or specified method providing head cushion, all equipments including mobilization, demobilization and hire charge of driving set, champering, test of materials and concrete etc. including carrying all complete approved and accepted by the Engineer-in-charge. (Rate is excluding the cost of reinforcement and its fabrication, binding, welding and placing). Casting of 180 mm x 180 mm x 7.6 m Pile with reinforced cement concrete (1:1.25:2.5) with stone chips. Driving of 180 mm x 180 mm x 7.6 m pre-cast pile	m	114.000	195.344	One Hundred and Ninety-Five point Three Four Four	22269.216	Twenty-Two Thousand Two Hundred and Sixty-Nine point Two One Six
8	N/A	N/A	Labour for breaking head of hardened cast in situ bored	cum	0.294	3237.121	Three Thousand	951.714	Nine Hundred

			pile/pre-cast pile up to a required length by any means but without damaging the rest and removing the dismantled materials such as concrete to a safe distance including scraps and cleaning concrete from steel/M.S. rods, straightening and bending of pile bars, preparation and making platform where necessary, carrying, all sorts of handling, stacking the same properly after clearing, leveling and dressing the situ and clearing the bed etc. complete in all respect and accepted by the Engineer-in-charge. (Measurement will be given for the actual pile head volume to be broken)				Two Hundred and Thirty-Seven point One Two One		and Fifty-One point Seven One Four
9	N/A	N/A	Earth work in excavation in all kinds of soil for foundation trenches including layout, providing center lines, local benchmark 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. Added rate for each additional 0.5 meter depth exceeding 1.5 meter.	cum	52.680	151.235	One Hundred and Fifty-One point Two Three Five	7967.060	Seven Thousand Nine Hundred and Sixty-Seven point Zero Six
10	N/A	N/A	Sand filling in foundation trenches and plinth with sand having minimum F.M. 0.8 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	cum	52.680	1050.534	One Thousand AND Fifty point Five Three Four	55342.131	Fifty-Five Thousand Three Hundred and Forty-Two point One Three One

			up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge.						
11	N/A	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	83.690	42.311	Forty-Two point Three One One	3541.008	Three Thousand Five Hundred and Forty-One point Zero Zero Eight
12	N/A	N/A	One layer brick flat soling in foundation or in floor with first class/picked jhama bricks (BDS 208) including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge.	sqm	106.020	466.305	Four Hundred and Sixty-Six point Three Zero Five	49437.656	Forty-Nine Thousand Four Hundred and Thirty-Seven point Six Five Six
13	N/A	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/B-M), Mass concrete in foundation (1:2:4) with brick chips and local sand of F.M. 1.2.	cum	2.280	7999.178	Seven Thousand Nine Hundred and Ninety-Nine point One Seven Eight	18238.126	Eighteen Thousand Two Hundred and Thirty-Eight point One Two Six
14	N/A	N/A	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4 having maximum water cement ratio = 0.45 and minimum f_{cr} = 26 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 conducting necessary tests, breaking	cum	14.690	7807.436	Seven Thousand Eight Hundred and Seven point Four Three Six	114691.235	One Lakh Fourteen Thousand Six Hundred and Ninety-One point Two Three Five

			chips and screening, 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). Individual & combined footing, pile cap, raft/mat, floor slab and foundation beam up to plinth level						
15	N/A	N/A	FORMWORK (Wooden) for boundary wall, gate, centry post etc. Individual and combined footings	sqm	44.300	470.806	Four Hundred and Seventy point Eight Zero Six	20856.706	Twenty Thousand Eight Hundred and Fifty-Six point Seven Zero Six
16	N/A	N/A	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, fy (ReH)= 400 MPa but fy 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 fu to yield strength fy, 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	1259.790	90.021	Ninety point Zero Two One	113407.556	One Lakh Thirteen Thousand Four Hundred and Seven point Five Five Six
17	N/A	N/A	25 mm thick artificial patent stone (1:2:4) flooring with cement, best quality coarse sand (50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2 and 50% best quality local sand of FM 1.2) and 12 mm down	sqm	83.690	437.498	Four Hundred and Thirty-Seven point Four Nine Eight	36614.208	Thirty-Six Thousand Six Hundred and Fourteen point Two

			well graded brick chips including breaking chips, screening, laying the concrete in alternate panels, compacting and finishing the top with neat cement and 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						Zero Eight
18	N/A	N/A	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	137.630	1066.738	One Thousand AND Sixty-Six point Seven Three Eight	146815.151	One Lakh Forty-Six Thousand Eight Hundred and Fifteen point One Five One
19	N/A	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/B-M) ground floor.	sqm	221.220	269.161	Two Hundred and Sixty-Nine point One Six One	59543.796	Fifty-Nine Thousand Five Hundred and Forty-Three point Seven Nine Six
20	N/A	N/A	Minimum 12 mm thick cement sand (F.M. 1:2) plaster with neat cement finishing to dado with cement (1:4) up to 150 mm including washing of sand, finishing the edges and corners and 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/B-M) ground floor.	sqm	18.230	335.776	Three Hundred and Thirty-Five point Seven Seven Six	6121.196	Six Thousand One Hundred and Twenty-One point One Nine Six

21	N/A	N/A	Bailing out of trapped water caused by inundation or rain, by pump from foundation trenches.	hour	30.000	426.696	Four Hundred and Twenty-Six point Six Nine Six	12800.880	Twelve Thousand Eight Hundred point Eight Eight
22	N/A	N/A	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	6.380	6777.607	Six Thousand Seven Hundred and Seventy-Seven point Six Zero Seven	43241.133	Forty-Three Thousand Two Hundred and Forty-One point One Three Three
23	N/A	N/A	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 ft 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	111.550	520.317	Five Hundred and Twenty point Three One Seven	58041.361	Fifty-Eight Thousand AND Forty-One point Three Six One
24	N/A	N/A	Supplying, fitting and fixing of 0.6 mm thick best quality solid aluminium metal board false ceiling (drop/ plain) of size 600 mm x 600 mm, powder coated of approved design, framing by aluminium T-bar of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and	sqm	83.690	2737.509	Two Thousand Seven Hundred and Thirty-Seven point Five Zero Nine	229102.128	Two Lakh Twenty-Nine Thousand One Hundred and Two point One Two Eight

			accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area.						
25	N/A	N/A	Supplying, fitting and fixing special quality 10 mm thick clear tempered glass door including all accessories, 1 set floor mounted auto door closure, 2 nos. clamping devices, 1 set locking device, top hinge and handle etc. complete in all respect as per drawing and direction of the Engineer-in-charge.	sqm	6.160	14246.566	Fourteen Thousand Two Hundred and Forty-Six point Five Six Six	87758.847	Eighty-Seven Thousand Seven Hundred and Fifty-Eight point Eight Four Seven
26	N/A	N/A	Supplying, fitting and fixing best quality of different thick clear glass partition with 44 mm, 44 mm, 1.5 mm aluminium box, protector bit (single), protector bit (double), Silicon including all accessories etc. all complete and as per drawing and direction of the Engineer-in-charge.	sqm	9.610	2846.433	Two Thousand Eight Hundred and Forty-Six point Four Three Three	27354.221	Twenty-Seven Thousand Three Hundred and Fifty-Four point Two Two One
27	N/A	N/A	Supplying, fitting and fixing window grill made of 10 mm x 10 mm M.S. solid bar @ 100mm c/c with outer frame of 38 mm x 6mm F.I. bar and 25 mm x 6 mm F.I. bar for clamp as per design including fabrication, welding, cost of electricity workshop charges, carriage, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc. complete for all floors approved and accepted by the Engineer-in-charge. (Total weight per sqm should be approx 17 kg and add or deduct @ Tk. 100.00 for each kg/sqm excess or less respectively)	sqm	9.610	2415.238	Two Thousand Four Hundred and Fifteen point Two Three Eight	23210.437	Twenty-Three Thousand Two Hundred and Ten point Four Three Seven
28	N/A	N/A	Supplying, fitting and fixing of equal dimension frame (EDF) section aluminium sliding window with mosquito mesh as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having 1.5 mm thick outer bottom (size 91.50 mm, 38.00 mm), 1.5 mm thick outer top (size 91.00 mm, 28.70 mm), 1.5 mm thick shutter top (size 65.00 mm, 27.30 mm), 1.5 mm thick shutter bottom	sqm	9.610	6935.142	Six Thousand Nine Hundred and Thirty-Five point One Four Two	66646.715	Sixty-Six Thousand Six Hundred and Forty-Six point Seven One Five

(size 72.20 mm, 24.65 mm),
1.5 mm thick outer side
(size 91.50 mm, 28.50 mm),
1.5 mm thick shutter lock
(size 65.30 mm, 26.00 mm),
1.5 mm thick shutter inter
lock (size 55.20 mm, 26.00
mm), 1.5 mm thick mesh
section (size 55.20 mm,
13.20 mm), all aluminium
members will be anodized to
aluminium
bronze/silver/ss/black colour
with a coat not less than 15
micrones in thickness or
powder coated to any colour
with a coat not less than 25
micrones in thickness and
density of 4 mg per square
cm etc. including all
accessories like sliding door
key lock, sliding door wheel,
sliding door mohiar, sliding
door neoprene, bolts and
nuts including sealants,
keeping provision for fitting
fiber mesh including labour
charge for fitting of
accessories, making
grooves and mending good
damages, carriage, and
electricity complete in all
respect as per drawing and
accepted by the Engineer-
in-charge. Size up to: 1280
mm x 1372 mm. Powder
coated to any colour

29	N/A	N/A	Supplying and making door and window frames (Chowkat) for all floors in/c wall side grove cutting, moulding by CNC machine or any other means with matured seasoned wood of required size including painting two coats of coal tar to the surface in contact with wall, fitting and fixing in position etc. all complete and accepted by the Engineer-in-charge. (All sizes of wood are finished). Frame made from seasoned Garjan/Jam/Local Sal Wood. Upto Size 0'-2.5" x 0'-6" (finished)	cum	0.060	131087.125	One Lakh Thirty-One Thousand AND Eighty-Seven point One Two Five	7865.228	Seven Thousand Eight Hundred and Sixty-Five point Two Two Eight
30	N/A	N/A	Supplying, fitting and fixing of 38 mm thick well matured seasoned (moisture content should be between 12% to 16%) solid wood single leaf door shutter having stile section 100m x 38mm, top rail section 125mm x 38mm, lock rail section 100mm x 38mm and bottom rail section 225mm x 38mm (made from minimum	sqm	1.941	16668.104	Sixteen Thousand Six Hundred and Sixty-Eight point One Zero Four	32352.790	Thirty-Two Thousand Three Hundred and Fifty-Two point Seven Nine

			250mm wide plank) with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished) Myanmar(Burma) Teak (SS Fittings)						
31	N/A	N/A	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	102.760	268.261	Two Hundred and Sixty-Eight point Two Six One	27566.500	Twenty-Seven Thousand Five Hundred and Sixty-Six point Five
32	N/A	N/A	Interior design paint of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container; applying to interior wall and ceiling with surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled	sqm	107.130	775.073	Seven Hundred and Seventy-Five point Zero Seven Three	83033.570	Eighty-Three Thousand AND Thirty-Three point Five Seven

			materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary interior sealer of specified brand on prepared surface; then applying necessary interior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; applying 3 coats of interior design paint; 1st coat on prepared surface, then applying 1 design coat on the 1st coat and finally applying 1 protection coat on the design coat for protecting the design 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.						
33	N/A	N/A	Standard synthetic enamel paint of approved best quality and colour delivered from authorized local agent of the manufacturer 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	9.600	206.147	Two Hundred and Six point One Four Seven	1979.011	One Thousand Nine Hundred and Seventy-Nine point Zero One One
34	N/A	N/A	Supplying, fitting and fixing of G.I. pipe with all special fittings, such as bends, elbows, sockets, reducing sockets, Tee, unions, jam-nuts etc. including cutting trenches where necessary and fitting the same with earth duly rammed and fixing in walls with holder bats and making hole in floors, walls and consequent mending good the damages etc. all complete in all respects approved and accepted by the Engineer-in-charge. 25 mm dia G.I. pipe with wall thickness 3.35	m	12.000	630.141	Six Hundred and Thirty point One Four One	7561.692	Seven Thousand Five Hundred and Sixty-One point Six Nine Two

			mm, outside diameter min 31.7 mm, weight 2.59 kg/m, can withstand min 50 kg/cm ² hydraulic pressure.						
35	N/A	N/A	Supplying different inside dia best quality uPVC soil, waste and ventilation pipe having specific gravity 1.35 - 1.45, wall thickness 2.5 mm - 3.0 mm, and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitting and fixing in position with sockets, bends, of uPVC Pipe with all accessories such as Round grating /domed roof grating bands, sockets etc. approved and accepted by the Engineer- in- charge. 150 mm inside dia wall thickness 4.5 mm - 5.2 mm	m	15.000	1439.421	One Thousand Four Hundred and Thirty-Nine point Four Two One	21591.315	Twenty-One Thousand Five Hundred and Ninety-One point Three One Five
36	N/A	N/A	Supplying, fitting and fixing foreign made homogeneous matt finished/ rustic floor tiles complying BDS ISO 13006: 2015, water absorption ≤ 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. Matt or rustic floor tiles of size 600 mm x 600 mm	sqm	82.110	2685.298	Two Thousand Six Hundred and Eighty-Five point Two Nine Eight	220489.819	Two Lakh Twenty Thousand Four Hundred and Eighty-Nine point Eight One Nine
37	N/A	N/A	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	sqm	82.230	3844.755	Three Thousand Eight Hundred and Forty-Four point Seven Five Five	316154.204	Three Lakh Sixteen Thousand One Hundred and Fifty-Four point Two Zero Four
38	N/A	N/A	Supply and installation of double bubble foil insulation	sqm	83.690	225.951	Two Hundred	18909.839	Eighteen Thousand

			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, costape, adhesive and necessary accessories, all complete as per drawing, specification and direction of Engineer-in-charge.				and Twenty-Five point Nine Five One		Nine Hundred and Nine point Eight Three Nine
39	N/A	N/A	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.Approx. 760~735 X 430~490 mm size, minimum 40 kg of weight, Equivalent to Stella: Viola / COTTO: C1026 or similar brand	each	1.000	28630.862	Twenty-Eight Thousand Six Hundred and Thirty point Eight Six Two	28630.862	Twenty-Eight Thousand Six Hundred and Thirty point Eight Six Two
40	N/A	N/A	Supplying of country made glazed vitreous W/H wash basin of any color. Approx. 550 x 470 mm, minimum weight 34 kg	each	2.000	9322.472	Nine Thousand Three Hundred and Twenty-Two point Four Seven Two	18644.944	Eighteen Thousand Six Hundred and Forty-Four point Nine Four Four
41	N/A	N/A	Supplying, fitting and fixing of country made best quality towel rail/ring/shelf minimum 20 mm in dia with C.P. holder including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in- charge.600 mm long C.P. towel shelf	each	2.000	1481.731	One Thousand Four Hundred and Eighty-One point Seven Three One	2963.462	Two Thousand Nine Hundred and Sixty-Three point Four Six Two
42	N/A	N/A	Supplying, fitting and fixing of best quality toilet paper holder of standard size including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in- charge.	each	1.000	727.363	Seven Hundred and Twenty-Seven point Three Six Three	727.363	Seven Hundred and Twenty-Seven point Three Six Three
43	N/A	N/A	Supplying, fitting and fixing of standard size country made soap tray including	each	2.000	565.327	Five Hundred and Sixty-	1130.654	One Thousand One

			making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge. Stainless steel soap tray				Five point Three Two Seven		Hundred and Thirty point Six Five Four
44	N/A	N/A	Supplying, fitting and fixing of Push-Up type liquid soap dispenser to dispense 16 oz (.47 liters) of soap, detergent or lotion. Unit shall be fabricated of tamper resistant, chrome plated plastic, a translucent white polyethylene soap container, and a corrosion resistant dispensing valve which can provide no more than 5 lbs (22.2 Newtons) pressure and unit can be reloaded by unscrewing base from bracket collar, inverting unit, and unscrewing soap container in which soap will continue to feed properly until empty with a continuously visible soap level etc. all complete approved and accepted by the Engineer- in- charge. Push-Up type liquid soap dispenser (foreign): special quality	each	2.000	7944.266	Seven Thousand Nine Hundred and Forty-Four point Two Six Six	15888.532	Fifteen Thousand Eight Hundred and Eighty-Eight point Five Three Two
45	N/A	N/A	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. 25 mm dia CP Concealed Stop Cock	each	4.000	1220.672	One Thousand Two Hundred and Twenty point Six Seven Two	4882.688	Four Thousand Eight Hundred and Eighty-Two point Six Eight Eight
46	N/A	N/A	Supplying, fitting and fixing of best quality pillar cock made from copper or copper alloy, chromium plated materials. CP One way Swan Cock	each	3.000	5329.185	Five Thousand Three Hundred and Twenty-Nine point One Eight Five	15987.555	Fifteen Thousand Nine Hundred and Eighty-Seven point Five Five Five
47	N/A	N/A	Supplying and fitting-fixing stainless steel hand / push shower for ablution including holder etc. all complete approved and accepted by the Engineer- in- charge. Moving type push shower	each	1.000	944.311	Nine Hundred and Forty-Four point Three One One	944.311	Nine Hundred and Forty-Four point Three One One
48	N/A	N/A	Supplying, fitting and fixing of 5 mm thick unframed super quality double coated mirror with all necessary fitting including making holes in walls and mending	sqm	3.000	2331.519	Two Thousand Three Hundred and Thirty-One point	6994.557	Six Thousand Nine Hundred and Ninety-

			good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge. Local Mirror, 5 mm thickness				Five One Nine		Four point Five Five Seven
49	N/A	N/A	Supplying, fitting and fixing of super quality 600 mm x 125 mm coloured glass (plate) shelf having 5 mm thickness with fancy C.P. brackets, screws and frames including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge.	each	1.000	1655.469	One Thousand Six Hundred and Fifty-Five point Four Six Nine	1655.469	One Thousand Six Hundred and Fifty-Five point Four Six Nine
50	N/A	N/A	Supplying, fitting and fixing of best quality G.I. gate valve with sealant etc. complete approved and accepted by the Engineer-in-charge. 25 mm brass gate valve	each	2.000	671.551	Six Hundred and Seventy-One point Five Five One	1343.102	One Thousand Three Hundred and Forty-Three point One Zero Two
51	N/A	N/A	Supplying, fitting and fixing of floor grating net in traps or in drains including making holes in walls/floors and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge. of following type	each	2.000	166.538	One Hundred and Sixty-Six point Five Three Eight	333.076	Three Hundred and Thirty-Three point Zero Seven Six
52	N/A	N/A	Construction of masonry inspection pit with 250 mm thick brick work in cement mortar (1:4) including necessary earth work, side filling and one layer brick flat soling, 75 mm thick (1:3:6) base concrete for making invert channel and 12 mm thick (1:2) cement plaster with neat finishing etc. all complete up to a depth of 700 mm approved and accepted by the Engineer-in-charge.	each	1.000	3728.629	Three Thousand Seven Hundred and Twenty-Eight point Six Two Nine	3728.629	Three Thousand Seven Hundred and Twenty-Eight point Six Two Nine
53	N/A	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	each	6.000	1235.075	One Thousand Two Hundred and Thirty-Five point Zero Seven Five	7410.450	Seven Thousand Four Hundred and Ten point Four Five

			/ White color thr.ough 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 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 thr.ough 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						
54	N/A	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 thr.ough 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 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	each	4.000	1235.075	One Thousand Two Hundred and Thirty-Five point Zero Seven Five	4940.300	Four Thousand Nine Hundred and Forty point Three

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. Fan point

Supplying & fixing AC capacitor type ceiling fan (without regulator) of following specifications and sizes complete with minimum 305 mm (1 ft) long and 0.75 -1.0" dia, 2.3 mm thickness MS pipe down rod, tempered cast aluminum blades, 2.5 µf 400V AC capacitor, canopy, double Z ball bearing, best quality silicon sheet core, best quality copper made super enamel wire, aluminum alloyed casting body having safety pin with powder coated heat / docu paint as required etc. connecting PVC wire complete as required. Rated voltage : 220 volts
Rated frequency : 50 Hz
Rated speed : 300 rpm ± 5 %
Service value : Minimum 3.5 m3 / min / watt
Temperature rise : Maximum 55°C
Class of insulation : Class-E
Noise level: 60 db at a distance 1 meter.

55

N/A

N/A

each

4.000

3605.302

Three
Thousand
Six
Hundred
and Five
point
Three
Zero Two

14421.208

Fourteen
Thousand
Four
Hundred
and
Twenty-
One point
Two Zero
Eight

56

N/A

N/A

each

6.000

2413.437

Two
Thousand
Four
Hundred
and
Thirteen
point Four
Three
Seven

14480.622

Fourteen
Thousand
Four
Hundred
and
Eighty
point Six
Two Two

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.851x4x20 watt

			or equivalent product of CRESCENT, ENERGY+, SHWASH etc.						
57	N/A	N/A	Providing & fixing on a prepared board 500 volt grade following Triple pole miniature circuit Breaker (TPMCB) having minimum breaking capacity 6-KA with thermal over current and instantaneous electromagnetic short circuit release provision. TPMCBS of DORMAN SMITH / MEM / SIEMENS / SCHNEIDER / VITZRO / EATON / HAGER / FEDERAL / KAWAMURA / ABB / HAVELLS / LEGRAND / MERLIN GERIN or equivalent accepted / approved by the engineer. 5 - 60 Amps.	each	3.000	2249.601	Two Thousand Two Hundred and Forty-Nine point Six Zero One	6748.803	Six Thousand Seven Hundred and Forty-Eight point Eight Zero Three
58	N/A	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). Four gang switch	each	4.000	744.466	Seven Hundred and Forty-Four point Four Six Six	2977.864	Two Thousand Nine Hundred and Seventy-Seven point Eight Six Four
59	N/A	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). Gang type fan Regulator	each	4.000	1342.199	One Thousand Three Hundred and Forty-Two point One Nine Nine	5368.796	Five Thousand Three Hundred and Sixty-Eight point Seven Nine Six
60	N/A	N/A	Providing & fixing 250 volts. 5 / 6 amps (minimum) concealed type following switch / switch socket manufactured and tested in	each	6.000	255.658	Two Hundred and Fifty-Five point	1533.948	One Thousand Five Hundred and

			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). Gang type fan Regulator. One gang switch & one 5 amps. 2-pin socket combined.				Six Five Eight		Thirty-Three point Nine Four Eight
							Grand Total:	2246451.007	Twenty-Two Lakh Forty-Six Thousand Four Hundred and Fifty-One point Zero Zero Seven

*** 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. Md. Hossain on behalf of M/s. Vola Enterprise