

M/s. Nasima Enterprise**Section 6. Bill of Quantities**

The work "Reconstruction of walkway from PSTP office building to Canteen with related works" will be done with the supply of following materials including necessary tools, equipments & manpower as per direction of the Engineer. The completed/running works will be accepted after joint Inspection of EE, AE and SAE of PSTP Division in presence of EE (P&D) sewer division & SE (W&STP) Circle. The contractor will provide free service during defect liability period of 06(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	Providing layout and carry over PWD bench-mark (BM) at site from nearby BM pillar, property lines, existing ground level (EGL), formation ground level (FGL), highest flood levels (HFL), plinth levels (PL), mean sea level (MSL), setting and marking all pillars, marker, pegs etc. showing and maintaining reduced levels (RL?s) including locating, establishing, protecting all public utilities within the premise of work and finally all to be presented in black and white.	Sqm	132.430	29.708	Twenty-Nine point Seven Zero Eight	3934.230	Three Thousand Nine Hundred and Thirty-Four point Two Three
2	N/A	N/A	Dismantling of plain concrete made of lime or cement and removal of debris to a safe distance.	Cum	52.980	1482.631	One Thousand Four Hundred and Eighty-Two point Six Three One	78549.790	Seventy-Eight Thousand Five Hundred and Forty-Nine point Seven Nine
3	N/A	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 cover 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	Sqm	320.110	196.245	One Hundred and Ninety-Six point Two Four Five	62819.987	Sixty-Two Thousand Eight Hundred and Nineteen point Nine Eight Seven

			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.						
4	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.	Cum	294.120	151.235	One Hundred and Fifty-One point Two Three Five	44481.238	Forty-Four Thousand Four Hundred and Eighty-One point Two Three Eight
5	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. Mass concrete in foundation (1:2:4) with brick chips and local sand of F.M. 1.2.	Cum	7.280	7999.178	Seven Thousand Nine Hundred and Ninety-Nine point One Seven Eight	58234.016	Fifty-Eight Thousand Two Hundred and Thirty-Four point Zero One Six
6	N/A	N/A	Exposed brick works (for exterior wall without outside plaster) with automatic machine made first class bricks, very carefully laid in cement sand (F.M. 1.2) mortar (1:4) in superstructure with uniform width and depth of	Cum	18.920	8494.288	Eight Thousand Four Hundred and Ninety-Four point Two Eight Eight	160711.929	One Lakh Sixty Thousand Seven Hundred and Eleven point Nine Two Nine

			horizontal lines including raking out joints, scaffolding, soaking the bricks at least for 24 hours before use, washing and screening of sand, curing at least for 7 days and high class flush pointing with cement sand (F.M. 1.2) mortar (1:1) including cost of water, electricity and other charges etc all complete and accepted by the Engineer-in-charge. (Cement: CEMII/ B-M) In ground floor.						
7	N/A	N/A	Sand filling in foundation trenches and plinth with sand having F.M. 0.5 to 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 up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge.	Cum	59.600	979.419	Nine Hundred and Seventy-Nine point Four One Nine	58373.372	Fifty-Eight Thousand Three Hundred and Seventy-Three point Three Seven Two
8	N/A	N/A	One layer HBB brick 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 including supply of water, other charges, costs of tools and plants etc. all complete and accepted by the Engineer-in-charge.	Sqm	132.430	899.301	Eight Hundred and Ninety-Nine point Three Zero One	119094.431	One Lakh Nineteen Thousand AND Ninety-Four point Four Three One
9	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	132.430	42.311	Forty-Two point Three One One	5603.246	Five Thousand Six Hundred and Three point Two Four Six
10	N/A	N/A	Providing compacted sub-base course with well graded material of crushed well burnt picked jhama /1st class brick bats and sand (FM 0.8) with mixing proportion 2 : 1 having compacted thickness made as per specification including local handling, spreading uniformly to proper grade camber and super elevation, packing, rolling	Cum	33.110	4905.191	Four Thousand Nine Hundred and Five point One Nine One	162410.874	One Lakh Sixty-Two Thousand Four Hundred and Ten point Eight Seven Four

			road roller and watering properly for compaction of 100% MDD (standard) blinding with sand including cost of fuel, lubricants, spares, maintenance, driver etc. all complete and accepted by the Engineer-in-charge.						
11	N/A	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, f_y (ReH)= 400 MPa but f_y not exceeding 450 MPa and whatever is the 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 16% and 8% respectively : up to ground floor.	Kg	1836.780	90.021	Ninety point Zero Two One	165348.772	One Lakh Sixty-Five Thousand Three Hundred and Forty-Eight point Seven Seven Two
12	N/A	N/A	Providing expansion joints across the R.C.C. road pavement with 20 mm gap between the adjacent panels. Supplying dowel bars of size 12 mm dia and 600 mm long M.S rod placed @ 750 mm c/c. 300 mm of the bar being fixed within one slab keeping remaining portion the bar free within the adjacent slab being inserted in 20 mm dia and 300 mm long P.V.C. pipe embedded in the slab, inside of pipe fully greased, filling the gap between the slabs (with admixture) of hot bitumen and coarse sand (F.M. 2.2) in proportion of 2:1, finishing the top with bitumen, spreading coarse sand over the joint, all complete as per plan, drawing and accepted by the Engineer-in-charge.	Rm	30.000	373.584	Three Hundred and Seventy-Three point Five Eight Four	11207.520	Eleven Thousand Two Hundred and Seven point Five Two
13	N/A	N/A	Reinforced cement concrete works from Ready-Mix concrete with minimum cement content relates to approved mix ratio having minimum f_{cr} = 33.5 MPa, satisfying a specified compressive strength $f_{c'}$ = 25 MPa at 28 days on standard cylinders as per standard practice of Code	Cum	19.860	12843.154	Twelve Thousand Eight Hundred and Forty-Three point One Five Four	255065.038	Two Lakh Fifty-Five Thousand AND Sixty-Five point Zero Three Eight

			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 wellgraded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in appendix), High-range water reducing chemical admixture Type-G under ASTM C494(Doses to be applied as per Manufacturer's Guideline) making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content as per approved design mix (minimum 385 kg/ cum), carrying to the site of laying using Transit Mixer (considering setting time of concrete from plant to the site), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to 150mm (measured at site), casting in forms, compacting by vibrator machine and curing at least for 28 days, all complete, approved and accepted by the Engineer-in-charge. (Foundation to 4th floor)						
14	N/A	N/A	Supply of best quality 300 mm x 300 mm size glazed Pavement tiles from Government owned Mirpur Ceramics.	Sft	1424.730	148.534	One Hundred and Forty-Eight point Five Three Four	211620.846	Two Lakh Eleven Thousand Six Hundred and Twenty point Eight Four Six
15	N/A	N/A	Cleaning and disposing of excavated earth from the construction site by truck or by any other means to a place within 30 km radius of the city or town area including loading & unloading at both ends, leveling and dressing the carried earth etc. complete and accepted by the Engineer-in-charge.	Cum	294.120	680.552	Six Hundred and Eighty point Five Five Two	200163.954	Two Lakh One Hundred and Sixty-Three point Nine Five Four
16	N/A	N/A	Bailing out water by 1 cusec diesel operated	"Per hour"	10.000	609.436	Six Hundred	6094.360	Six Thousand

			operator, spares and maintenance etc. all complete and accepted by by the Engineer-in-charge.				Four Three Six		Four point Three Six
17	N/A	N/A	Solvent based water repellent of approved quality delivered from authorized local agent of the manufacturer in a sealed container; 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 3 coats of silicon based water repellent on exposed brick surface/fair face surface 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	1.000	360.081	Three Hundred and Sixty point Zero Eight One	360.081	Three Hundred and Sixty point Zero Eight One
18	N/A	N/A	Construction of septic tank of different sizes with walls of brick work in cement mortar (1:6) having a lining of minimum 125 mm R.C.C cast against the walls as per approved type plan over a brick flat soling and 150 mm thick reinforced cement concrete flooring (1:2:4) with 125 mm thick walls in partition and 12 mm thick cement plaster (1:4) with N.C.F. to insides of walls on floor and all around outside walls by 450 mm height at top including supplying, fitting and fixing of two R.C.C. Tees and providing 450 mm dia water sealed heavy type C.I. manhole cover with locking/unlocking arrangement and 100 mm thick R.C.C (1:2:4) top slab, including centering, shuttering, fabricating, casting and curing etc. complete up to required depth including necessary earth work in excavation and shoring, bailing out water and side filling including the cost of all materials, operations and incidental charges. etc. all complete as per type plan approved and accepted by the Engineer-in-charge	each	1.000	101312.111	One Lakh One Thousand Three Hundred and Twelve point One One One	101312.111	One Lakh One Thousand Three Hundred and Twelve point One One One

			reinforcent of the weight of the glaze materials.						
19	N/A	N/A	Providing necessary facilities in construction site for maintaining site safety of 30 nos construction worker including safety helmet, safety belt , apron, gumboot, goggles etc.	Set	1.000	34318.561	Thirty-Four Thousand Three Hundred and Eighteen point Five Six One	34318.561	Thirty-Four Thousand Three Hundred and Eighteen point Five Six One
20	N/A	N/A	Site development/Improvement by carted earth or dredged sand, sandy silt (free from any organic, foreign, environmental hazardous substances) carried by head or truck or any other means including cost of cutting or by dredging of sand, sandy silt, all; including local carrying, placing the earth/sand, sandy silt in the designated area, maintaining slopes, breaking lumps, levelling and dressing in layers up to finished level etc. all complete as per direction and accepted by the engineer in charge.	Cum	557.650	468.105	Four Hundred and Sixty-Eight point One Zero Five	261038.753	Two Lakh Sixty-One Thousand AND Thirty-Eight point Seven Five Three
21	N/A	N/A	"Watt: 4x15W LED bulb voltage AC 165-265V, Materials: Aluminium alloy. MS pipe & sheet painted with epoxy power print and glass. Height: 3000mm base height with ball : minimum 22" Overall diameter (including 4 shades) :30" MS pipe Dia: 2.5" & 2" & Thickness: minimum 2mm Cast Aluminium thickness on shade: minimum 3 mm mm & on base: minimum 10 mm Gloria Cat No: GRL-(LED).44IDS-375 (4) 4x15W Energy+, EPGL-24022, Cosmo BDTCL.GDPL-13 Asha Cat-ACS-GL-937 or similar product of SUNKO, ANNYESHA FLOS or Equivalent."	Each	8.000	22643.632	Twenty-Two Thousand Six Hundred and Forty-Three point Six Three Two	181149.056	One Lakh Eighty-One Thousand One Hundred and Forty-Nine point Zero Five Six
							Grand Total:	2181892.165	Twenty-One Lakh Eighty-One Thousand Eight Hundred and Ninety-Two point

*** 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. Nazmul Hasan on behalf of M/s. Nasima Enterprise