

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

Repair and maintenance of main trunk sewer line from 31 no. word commissioner office to jurain railgate. with the Supply of following materials including necessary tools & equipments as per direction of the Engineer. The materials/completed 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. Final bill be paid after getting satisfactory acceptance at the time of joint inspection comparing with the mentioned technical specification and sample. 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	Making cross bundh of required height & width for the purpose of dewatering and keeping the site always workable, with sand/ soil & empty bags arranged by the contractor and maintaining the same till the completion of work including supply of necessary planks, runner hings etc. with necessary equipments & removal the same accorately after completion of work asper direction of the Engineer-in-charge.(for brick sewer 2400 mm dia & above).	each	8.000	17500.001	Seventeen Thousand Five Hundred point Zero Zero One	140000.008	One Lakh Forty Thousand point Zero Zero Eight
2	N/A	N/A	Fitting & fixing of De-watering pump Bailing out of all shorts of water from Trances, cannel the line with all lead & lift by the required nos of 5 Cusec capacity de-watering pump should be use usually, including supplying the fuel, lubricants spares & all other required accessories & man power etc. all complete as per direction of the Engineer ?in-Charge.	hour	168.000	500.001	Five Hundred point Zero Zero One	84000.168	Eighty-Four Thousand point One Six Eight
3	N/A	N/A	Cleaning the following sizes pipe drain/Brick sewer manhole catch pits etc. including removing the bund inside the line manhole cleaning the solid semi-solid & slushy earth, debris, polythene and any other foreign materials by manually labour by using ladder or by any other means, from the existing base of the line, without making any damage to the structure, including supply of all necessary equipments	cum	839.820	300.001	Three Hundred point Zero Zero One	251946.840	Two Lakh Fifty-One Thousand Nine Hundred and Forty-Six point Eight Four

			materials if necessary to ensure the proper cleaning along the whole length & width up to the invert level of the line and removing the sludge & debris to safe distant place without causing any disterbence to the traffic etc. all complete as per direction the E/C.						
4	N/A	N/A	Removal of Pipe line and Brick sewer sludge from the cleaning site up to the nearest D.C.C. dumping yard carrying loading unloading etc. complete as per direction of the Engineer-in-charge.	cum	587.870	350.001	Three Hundred and Fifty point Zero Zero One	205755.088	Two Lakh Five Thousand Seven Hundred and Fifty-Five point Zero Eight Eight
5	N/A	N/A	Geo textile bag. (size-600 mm x 500 mm, 400 GSM/PP, thickness-3 mm).	each	70.000	140.001	One Hundred and Forty point Zero Zero One	9800.070	Nine Thousand Eight Hundred point Zero Seven
6	N/A	N/A	Geo textile bag. (size-800 mm x 500 mm, 400 GSM/PP, thickness-3 mm).	each	70.000	180.001	One Hundred and Eighty point Zero Zero One	12600.070	Twelve Thousand Six Hundred point Zero Seven
7	N/A	N/A	Geo textile bag. (size-1000 mm x 1000 mm, 400 GSM/PP, thickness-3 mm).	each	70.000	350.001	Three Hundred and Fifty point Zero Zero One	24500.070	Twenty-Four Thousand Five Hundred point Zero Seven
8	N/A	N/A	Solvent Cement 500 ml can.	can	30.000	450.001	Four Hundred and Fifty point Zero Zero One	13500.030	Thirteen Thousand Five Hundred point Zero Three
9	N/A	N/A	Construction concrete admixture.	kg	30.000	350.001	Three Hundred and Fifty point Zero Zero One	10500.030	Ten Thousand Five Hundred point Zero Three
10	N/A	N/A	Centering and shuttering, including strutting, propping etc. (The formwork must be rigid enough both in and out of plane, to make the concrete surface true to the designed shape and size by using necessary MS sheets of minimum 16 BWG, angles of minimum size 40 mm x 40 mm x 5 mm, flat bars etc.) and removal of form for: Arches,	sqm	19.200	2000.001	Two Thousand point Zero Zero One	38400.019	Thirty-Eight Thousand Four Hundred point Zero One Nine

			domes, vaults up to 8m span (for single use)						
11	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, f_y (ReH)= 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	311.420	125.001	One Hundred and Twenty-Five point Zero Zero One	38927.811	Thirty-Eight Thousand Nine Hundred and Twenty-Seven point Eight One One
12	N/A	N/A	Reinforced cement concrete works from batch mix/machine mix with minimum cement content relates to approved mix ratio having minimum f'_{cr} = 40.5 MPa, satisfying a specified compressive strength f'_c =32 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 wellgraded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), 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 445 kg/cum), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to 150mm, 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, cost of all materials and other charges	cum	2.480	2200.001	Two Thousand Two Hundred point Zero Zero One	5456.002	Five Thousand Four Hundred and Fifty-Six point Zero Zero Two

			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).						
13	N/A	N/A	Providing 125 mm thick brick work in superstructure (partition walls) with cement sand (F.M. 1:2) mortar (1:4) with machine made ceramic bricks of approved size having uniform colour, carefully laid in cement mortar of uniform width & depth of joints, true to vertical and horizontal lines including racking out joints, filling the interstices with same mortar, making bond with connected walls, cleaning, soaking brick at least 24 hours and washing of sand, curing 7 days in all floors, including cost of water, electricity and other charges accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	sqm	6.000	1750.001	One Thousand Seven Hundred and Fifty point Zero Zero One	10500.006	Ten Thousand Five Hundred point Zero Zero Six
14	N/A	N/A	Rent of compressor, oxygen mask and full set for expct water sink man.	sqm	7.000	10000.001	Ten Thousand point Zero Zero One	70000.007	Seventy Thousand point Zero Zero Seven
15	N/A	N/A	Rent of tripod, MS plate and other acessorices	sqm	7.000	2000.001	Two Thousand point Zero Zero One	14000.007	Fourteen Thousand point Zero Zero Seven
16	N/A	N/A	All working site cleaning.	sqm	1.000	13001.341	Thirteen Thousand AND One point Three Four One	13001.341	Thirteen Thousand AND One point Three Four One
							Grand Total:	942887.567	Nine Lakh Forty-Two Thousand Eight Hundred and Eighty-Seven point Five Six 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. Mir Ashikul Alam on behalf of ASHIK ENTERPRISE