

Priced Bill of Quantities (BOQ)

Unit Rate Basis

Estimate by the Procuring Entity

Item No.	Group	Item Code (If any)	Description of Items of Works (specifications preferably built-in)	Unit	Quantity	Unit rates or prices (in figures) (BDT)	Unit rates or prices (in words) (BDT)	Amount (in figure) (BDT)	Amount (in words) (BDT)	I have seen
1	N/A	WASA-1/7/d	Supply lay fitting and fixing of uPVC (Unplasticized polyvinyl chloride)/DI/PE/MS/HDPE water pipelines (including supply of materials fittings Equipment described in schedule) in accordance with the technical specification and the standard detailed drawings of any diameter specified below. The rate includes for excavation in all kinds of soil BFS/HBB/Bituminous road CC RCC road surface except rock to the full depth of trench required by the specifications precautions necessary to avoid damage of underground utility services (any damage Contractor shall repair by his own cost) including removing the excavated earth & stacking the same to safe distance without any traffic obstacles de-watering of the trench to keep dry condition at all times including all necessary shoring boxing must be protected from any collapse of trench sides preparation of trench bottom at depth of 1.2.M transport (all kinds of materials equipment pipes & fittings) to site laying jointing and cleaning of the water pipes; disposal of surplus excavated material and transport back surplus materials to Dhaka WASA stores (materials supplied by Dhaka WASA described in Annexure -----) as per specifications and direction of Engineering in charge (cost of excess excavated earth would be deducted as per deptt material rate)iii) 200 mm dia (6mm wall thickness) M.S. Pipe.	m	5.000	3526.001	Three Thousand Five Hundred and Twenty-Six point Zero Zero One	17630.005	Seventeen Thousand Six Hundred and Thirty point Zero Zero Five	I have seen
2(i)	N/A	WASA-3/12/b	Supply lay fitting and fixing of DI/CI/MS/GI fittings for PVC/HDPE pipes in accordance with the technical specifications standard detailed drawings and direction of Engineering in charge. i) 150×90° MS Bend (6mm thick)	Each	2.000	4862.001	Four Thousand Eight Hundred and Sixty-Two point Zero Zero One	9724.002	Nine Thousand Seven Hundred and Twenty-Four point Zero Zero Two	I have seen
2(ii)	N/A	WASA-3/16/c	200×150mm MS Reducer	Each	1.000	3330.002	Three Thousand Three Hundred and Thirty point Zero Zero Two	3330.002	Three Thousand Three Hundred and Thirty point Zero Zero Two	I have seen
2(iii)	N/A	WASA-3/11/c	200×45° M.S. bend (6mm thick)	Each	1.000	7527.001	Seven Thousand	7527.001	Seven Thousand	I have

							Five Hundred and Twenty-Seven point Zero Zero One		Five Hundred and Twenty-Seven point Zero Zero One	seen
2(iv)	N/A	WASA-3/14/e	200×150×200 M.S (with flange) Tee	Each	1.000	4239.001	Four Thousand Two Hundred and Thirty-Nine point Zero Zero One	4239.001	Four Thousand Two Hundred and Thirty-Nine point Zero Zero One	I have seen
2(v)	N/A	WASA-4/6/c	200 mm dia M.S Flange adopter	Each	1.000	1380.001	One Thousand Three Hundred and Eighty point Zero Zero One	1380.001	One Thousand Three Hundred and Eighty point Zero Zero One	I have seen
2(vi)	N/A	WASA-4/2/b	150 mm dia C.I Dresser Coupling in/c nut-bolts	Each	1.000	1411.001	One Thousand Four Hundred and Eleven point Zero Zero One	1411.001	One Thousand Four Hundred and Eleven point Zero Zero One	I have seen
2(vii)	N/A	WASA-4/2/c	200 mm dia C.I Dresser Coupling in/c nut-bolts	Each	1.000	1668.001	One Thousand Six Hundred and Sixty-Eight point Zero Zero One	1668.001	One Thousand Six Hundred and Sixty-Eight point Zero Zero One	I have seen
2(viii)	N/A	Analysis	150 mm dia MS Special (M.S. - HDPE) Dresser Coupling in/c nut-bolts	Each	1.000	1574.001	One Thousand Five Hundred and Seventy-Four point Zero Zero One	1574.001	One Thousand Five Hundred and Seventy-Four point Zero Zero One	I have seen
2(ix)	N/A	Analysis	200 mm dia MS Special (M.S. - HDPE) Dresser Coupling in/c nut-bolts	Each	1.000	1929.001	One Thousand Nine Hundred and Twenty-Nine point Zero Zero One	1929.001	One Thousand Nine Hundred and Twenty-Nine point Zero Zero One	I have seen
2(x)	N/A	WASA-1/7/d	200 mm dia (short Piece) (6mm wall thickness) M.S. Pipe.(If Flowmeter not found in Dhaka WASA store.)	m	1.000	3526.001	Three Thousand Five Hundred and Twenty-Six point Zero Zero One	3526.001	Three Thousand Five Hundred and Twenty-Six point Zero Zero One	I have seen
2(xi)	N/A	App.Rate	Splindor for 200 mm dia Gate Valve	Each	8.000	4000.001	Four Thousand	32000.008	Thirty-Two Thousand	I have seen

							point Zero Zero One		point Zero Zero Eight	
2(xii)	N/A	App.Rate	Splindor for 150 mm dia Gate Valve	Each	8.000	2500.001	Two Thousand Five Hundred point Zero Zero One	20000.008	Twenty Thousand point Zero Zero Eight	I have seen
2(xiii)	N/A	App.Rate	Bush r for 200/150 mm dia Gate Valve	Each	18.000	800.001	Eight Hundred point Zero Zero One	14400.018	Fourteen Thousand Four Hundred point Zero One Eight	I have seen
2(xiv)	N/A	App.Rate	Gate for 200 mm dia Gate Valve	Each	6.000	1800.001	One Thousand Eight Hundred point Zero Zero One	10800.006	Ten Thousand Eight Hundred point Zero Zero Six	I have seen
2(xv)	N/A	App.Rate	Gate for 150 mm dia Gate Valve	Each	7.000	1400.001	One Thousand Four Hundred point Zero Zero One	9800.007	Nine Thousand Eight Hundred point Zero Zero Seven	I have seen
3(i)	N/A	WASA-24/c	Supply lay fitting and fixing of different types of fittings for Delivery main & washout line in accordance with technical specifications standard detailed drawings and direction of Engineering in charge.3" to 4" dia Pressure meter 300 PSI Made in UK/USA/Japan.	Each	1.000	978.001	Nine Hundred and Seventy- Eight point Zero Zero One	978.001	Nine Hundred and Seventy- Eight point Zero Zero One	I have seen
3(ii)	N/A	WASA-24/d	350-200×20 mm th M.S Flange	Each	8.000	633.001	Six Hundred and Thirty- Three point Zero Zero One	5064.008	Five Thousand AND Sixty- Four point Zero Zero Eight	I have seen
3(iii)	N/A	WASA-24/e	350-150×20 mm thick M.S Flange	Each	6.000	518.001	Five Hundred and Eighteen point Zero Zero One	3108.006	Three Thousand One Hundred and Eight point Zero Zero Six	I have seen
3(iv)	N/A	WASA-24/f	75×20 mm dia Nut Bolts	Each	128.000	80.001	Eighty point Zero Zero One	10240.128	Ten Thousand Two Hundred and Forty point One Two Eight	I have seen
3(v)	N/A	WASA-24/h	20 mm dia M.S Anchor nut Bolt	Each	10.000	345.001	Three Hundred and Forty- Five point Zero Zero One	3450.010	Three Thousand Four Hundred and Fifty point Zero One	I have seen
3(vi)	N/A	Analysis	350-200×5 mm thick rubber gaskit	Each	30.000	150.001	One Hundred and Fifty point Zero Zero One	4500.030	Four Thousand Five Hundred point Zero Three	I have seen

3(vii)	N/A	Analysis	350-150×5 mm thick rubber gaskit	Each	20.000	120.001	One Hundred and Twenty point Zero Zero One	2400.020	Two Thousand Four Hundred point Zero Two	I have seen
3(viii)	N/A	Analysis	50 mm dia flange type Air release Valve (double acting) with necessary gate valve and accessories.	Each	5.000	3773.001	Three Thousand Seven Hundred and Seventy-Three point Zero Zero One	18865.005	Eighteen Thousand Eight Hundred and Sixty-Five point Zero Zero Five	I have seen
3(ix)	N/A	Analysis	50 mm dia flange type SS Gate Valve (Provision for Fire hydrant) with necessary accessories.	Each	5.000	6494.001	Six Thousand Four Hundred and Ninety-Four point Zero Zero One	32470.005	Thirty-Two Thousand Four Hundred and Seventy point Zero Zero Five	I have seen
4(i)	N/A	Analysis	Supply lay fitting and fixing of DI/CI/MS/GI fittings for Installation of Delivery line in accordance with the technical specifications standard detailed drawings and direction of Engineering in charge. 200 x 150 mm dia 90° MS Reducing Bend	Each	1.000	5775.001	Five Thousand Seven Hundred and Seventy-Five point Zero Zero One	5775.001	Five Thousand Seven Hundred and Seventy-Five point Zero Zero One	I have seen
4(ii)	N/A	Analysis	Base plate 8 mm Thickness (one pair)	Each	2.000	3150.001	Three Thousand One Hundred and Fifty point Zero Zero One	6300.002	Six Thousand Three Hundred point Zero Zero Two	I have seen
4(iii)	N/A	Analysis	Clamp (one pair)	Each	4.000	3676.001	Three Thousand Six Hundred and Seventy-Six point Zero Zero One	14704.004	Fourteen Thousand Seven Hundred and Four point Zero Zero Four	I have seen
4(iv)	N/A	Analysis	150/100 mm dia (short Piece with flange) (6mm wall thickness) M.S. Pipe.`	m	3.000	3516.001	Three Thousand Five Hundred and Sixteen point Zero Zero One	10548.003	Ten Thousand Five Hundred and Forty-Eight point Zero Zero Three	I have seen
5	Civil	PWD-2.1.10	Pipe bedding sorrounding: Supply depositing and compaction of fine sand (FM 0.8) bedding surrounding and above pipes up to required depth with proper ramming of 150mm layer as per specifications standard detailed drawings and direction of Engineering in charge.	Cum	12.280	1088.001	One Thousand AND Eighty-Eight point Zero Zero One	13360.652	Thirteen Thousand Three Hundred and Sixty point Six Five Two	I have seen
6	Civil	PWD-2.10.1	Main backfill of trenches: Supply depositing and compaction of fine sand back filling (FM 0.8) at all required depth in accordance with the technical specification and direction of	cum	15.370	1088.001	One Thousand AND Eighty-Eight	16722.575	Sixteen Thousand Seven Hundred and	I have seen

			Engineering in charge and standard detail drawings for all water pipe line diameters. .				point Zero Zero One		Twenty-Two point Five Seven Five	
7	Civil	WASA-7	Back filling by excavated granular soil including depositing and compaction at all required depth in accordance with the technical specification by excavated soil for kutcha road surface.	cum	2.020	134.001	One Hundred and Thirty-Four point Zero Zero One	270.682	Two Hundred and Seventy point Six Eight Two	I have seen
8(i)	Civil	WASA-8	Temporary reinstatement of rigid and flexible paved road by compacted sand (FM 1.2) of 75 mm thick and one layer brick soling by full burned 1st class bricks of appropriate size (excavated bricks of proper sizes and quality is allowed to use) of the existing surfaced road in accordance with the technical specification and direction of Engineering in charge and standard detail drawing for all water pipeline of any diameters for the type of road Surface given below.A. Asphalt/concrete road surface.	sqm	23.400	73.601	Seventy-Three point Six Zero One	1722.263	One Thousand Seven Hundred and Twenty-Two point Two Six Three	I have seen
8(ii)	Civil	WASA-8	B. Katcha road/BFS/HBB Rd.	sqm	2.020	36.708	Thirty-Six point Seven Zero Eight	74.150	Seventy-Four point One Five	I have seen
9	Civil	WASA-9	Excavation and removal of loose soil from site and the back fill of the excess excavation with approved fill materials/ excavated earth all in accordance with technical specification.	cum	7.090	331.001	Three Hundred and Thirty-One point Zero Zero One	2346.797	Two Thousand Three Hundred and Forty-Six point Seven Nine Seven	I have seen
10	Civil	WASA-14/1-3	Interconnection of water pipelines to any existing water supply networks the rate includes for excavation cutting necessary plugging de-watering cleaning and unplugging protection and repair of any existing structures. All works shall be done in accordance with Technical Specification and direction of Engineering in charge and Standard detail Drawings for the diameter of the existing water pipelines given below.a) 100 to 225mm dia PVC	Nos	2.000	2284.001	Two Thousand Two Hundred and Eighty-Four point Zero Zero One	4568.002	Four Thousand Five Hundred and Sixty-Eight point Zero Zero Two	I have seen
11	Civil	PWD-3.5.1	Placing of Mass concrete 1: 3:6 for the anchor blocks at all bends tees end caps and reducers including the supply of all materials in accordance with the technical specification necessary additional excavation ; supply of all materials and for the wrapping of all PVC jetting encased in concrete with two layers of heavy duty polytheist sheeting .	cum	0.650	10504.001	Ten Thousand Five Hundred and Four point Zero Zero One	6827.601	Six Thousand Eight Hundred and Twenty-Seven point Six Zero One	I have seen
12	Civil	WASA-20	Hire charge of de-watering pump: Bailing out of all water from pipe line trench with supply of de-watering pump required size including supplying of fuel lubricants and all other required of the trench to keep the trench in a dry condition at all timed etc. All complete as per direction of the E/C.	day	12.000	2141.001	Two Thousand One Hundred and Forty-One point Zero Zero One	25692.012	Twenty-Five Thousand Six Hundred and Ninety-Two point Zero One Two	I have seen

13	Civil	PWD-16.3.1	Painting to Delivery main & washout line: 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	10.720	229.001	Two Hundred and Twenty-Nine point Zero Zero One	2454.891	Two Thousand Four Hundred and Fifty-Four point Eight Nine One	I have seen
14	Civil	PWD-2.1.2	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: in medium stiff clayey soil.	cum	7.740	168.001	One Hundred and Sixty-Eight point Zero Zero One	1300.328	One Thousand Three Hundred point Three Two Eight	I have seen
15	Civil	PWD-3.1.1	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	2.720	636.001	Six Hundred and Thirty-Six point Zero Zero One	1729.923	One Thousand Seven Hundred and Twenty-Nine point Nine Two Three	I have seen
16	Civil	PWD-3.5.1	Mass concrete (1:3:6) 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 the Engineer-incharge. (Cement: CEM-II/A-M)Mass concrete in foundation (1:3:6) with cement brick chips and sand of F.M. 1.2	Cum	0.200	10504.001	Ten Thousand Five Hundred and Four point Zero Zero One	2100.800	Two Thousand One Hundred point Eight	I have seen
17	Civil	PWD-2.10.1	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	Cum	1.770	1088.001	One Thousand AND Eighty-Eight point Zero Zero One	1925.762	One Thousand Nine Hundred and Twenty-Five point	I have seen

			design supplied by the design office only all complete and accepted by the Engineer-in-charge.						Seven Six Two	
18	Civil	PWD-2.13	Earth filling in foundation trenches and plinth in 150 mm layer with earth available within 90 m of the building site to achive minimum dry density of 95% with optimum moisture content (Modified proctor test) including carrying watering leveling dressing and compacting to a specified percentage each layer up to finished level etc. all complete and accepted by Engineer-in-charge.	cum	5.000	207.001	Two Hundred and Seven point Zero Zero One	1035.005	One Thousand AND Thirty-Five point Zero Zero Five	I have seen
19	Civil	PWD-7.1.1	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4 having minimum fcr = 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 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)	cum	1.350	10292.001	Ten Thousand Two Hundred and Ninety-Two point Zero Zero One	13894.201	Thirteen Thousand Eight Hundred and Ninety-Four point Two Zero One	I have seen
20	Civil	PWD-7.18.3	Form work for centering and water tight shuttering as per drawing with wooden planks (Jam/Jarul) of different thickness including supply of polythene sheet (1kg covering 6.5sqm) for making shuttering leakproof for all sorts of R.C.C. works in building construction including fitting fixing by nails tie rods nuts and bolts to desired shape and size including leveling and removing the forms etc. after specified period including the cost of all materials as per direction of Engineer in charge. Individual and continuous footing of column raft etc. With 25mm thick wooden planks.	sqm	17.100	526.001	Five Hundred and Twenty-Six point Zero Zero One	8994.617	Eight Thousand Nine Hundred and Ninety-Four point Six One Seven	I have seen
21	Civil	PWD-8.1.2	Supplying fabrication and fixing to detail as per design : ribbed or deformed bar reinforcement for Reinforced cement concrete produced and marked in accordance with BDS ISO 6935 - 2: 2006 (or	kg	169.290	121.001	One Hundred and Twenty-One point	20484.259	Twenty Thousand Four Hundred and Eighty-	I have seen

			standard subsequently released from BSTI) including straightening and cleaning rust if any bending and binding in position with supply of G.I. wires necessary laboratory tests (excluding splices or laps) etc. complete in all respect and accepted by the Engineer-in-charge (Measurement shall be recorded only on standard mass per unit length of bars while dia of bars exceeds its standard)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.				Zero Zero One		Four point Two Five Nine	
22	Civil	PWD-15.2	Minimum 12 mm thick cement sand (F.M. 1.2) plaster with neat cement finishing to plinth wall with cement (1:4) up to 150 mm below ground level 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/A-M) ground floor.	sqm	10.800	381.001	Three Hundred and Eighty-One point Zero Zero One	4114.811	Four Thousand One Hundred and Fourteen point Eight One One	I have seen
23	Civil	N/A	Site Cleaning as per direction of E/C	Item	2.000	5000.001	Five Thousand point Zero Zero One	10000.002	Ten Thousand point Zero Zero Two	I have seen
							Grand Total:	398959.620	Three Lakh Ninety-Eight Thousand Nine Hundred and Fifty-Nine point Six Two	

This Priced Bill of Quantities (BOQ) is Electronically Signed by Mr. Md. Kabir on behalf of M/s. Wali & Brothers