

R T R ENTERPRISE

Bill of Quantities

Item No. 1	Group 2	Item Code (if any) 3	Description of Items of Works 4	Measurement Unit 5	Quantity 6	Unit Price In figures (BDT) 7	Unit Price In words (BDT) 8	Total Price in figures (BDT) 9	Total Price In words (BDT) 10
1	Civil	Approved Rate	Construction/laying including Procurement, supply, carrying of High Density Polyethylene (HDPE) water pipelines by Open Cut method 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/Cement Concrete/Reinforced Cement Concrete road surface except rock to the full depth of trench required by the specifications, precautions necessary to avoid damage of underground utility services, (if any damage occurs, 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, transportation of pipes to site, cleaning, jointing and laying of the water pipes; transport and disposal of surplus excavated material to a suitable location arranged by the contractor.315 mm dia HDPE Pipe PN 10, SDR17 & PE100	m	3.000	10145.000	Ten Thousand One Hundred And Forty-Five	30435.000	Thirty Thousand Four Hundred And Thirty-Five
2	Civil	Approved Rate	315×315×75mm dia HDPE EF Tee	Each	2.000	22300.000	Twenty-Two Thousand Three Hundred	44600.000	Forty-Four Thousand Six Hundred
3	Civil	Approved Rate	Construction/laying including carrying of High Density Polyethylene (HDPE) water pipelines by Open Cut method 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/Cement Concrete/Reinforced Cement Concrete road surface except rock to the full depth of trench required by the specifications, precautions necessary to avoid damage of underground utility	m	20.000	438.351	Four Hundred And Thirty-Eight Point Three Five One	8767.020	Eight Thousand Seven Hundred And Sixty-Seven Point Zero Two

			services, (if any damage occurs, 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, transportation of pipes to site, cleaning, jointing and laying of the water pipes; transport and disposal of surplus excavated material to a suitable location arranged by the contractor.i) 110 mm dia HDPE Pipe PE 100/ PN 10mm dia HDPE Pipe PN 10, SDR17 & PE100						
4	Civil	Approved Rate	ii) 75 mm dia HDPE Pipe PN 10, SDR17 & PE100	m	15.000	438.351	Four Hundred And Thirty-Eight Point Three Five One	6575.265	Six Thousand Five Hundred And Seventy-Five Point Two Six Five
5	Civil	Approved Rate	i) 315×315×110mm dia HDPE EF Tee	Each	1.000	4162.220	Four Thousand One Hundred And Sixty-Two Point Two Two	4162.220	Four Thousand One Hundred And Sixty-Two Point Two Two
6	Civil	Approved Rate	ii) 75×75×75mm dia HDPE EF Tee	Each	2.000	2252.110	Two Thousand Two Hundred And Fifty-Two Point One One	4504.220	Four Thousand Five Hundred And Four Point Two Two
7	Civil	Approved Rate	iii)110×90° HDPE EF Bend	Each	1.000	1582.094	One Thousand Five Hundred And Eighty-Two Point Zero Nine Four	1582.094	One Thousand Five Hundred And Eighty-Two Point Zero Nine Four
8	Civil	Approved Rate	iv)75×90° HDPE EF Bend	Each	2.000	1582.940	One Thousand Five Hundred And Eighty-Two Point Nine Four	3165.880	Three Thousand One Hundred And Sixty-Five Point Eight Eight
9	Civil	Approved Rate	v) 315 mm dia HDPE EF Sleeve	Each	4.000	2739.170	Two Thousand Seven Hundred And Thirty-Nine Point One Seven	10956.680	Ten Thousand Nine Hundred And Fifty-Six Point Six Eight

10	Civil	Approved Rate	vi) 110 mm dia HDPE EF Sleeve	Each	8.000	1582.940	One Thousand Five Hundred And Eighty-Two Point Nine Four	12663.520	Twelve Thousand Six Hundred And Sixty-Three Point Five Two
11	Civil	Approved Rate	vi) 75mm dia HDPE EF Sleeve	Each	8.000	1582.940	One Thousand Five Hundred And Eighty-Two Point Nine Four	12663.520	Twelve Thousand Six Hundred And Sixty-Three Point Five Two
12	Civil	Approved Rate	vi) 110x75 mm dia HDPE Reducer	Each	1.000	1118.110	One Thousand One Hundred And Eighteen Point One One	1118.110	One Thousand One Hundred And Eighteen Point One One
13	Civil	Approved Rate	vi) 110 mm dia HDPE BF End Cap	Each	1.000	1118.110	One Thousand One Hundred And Eighteen Point One One	1118.110	One Thousand One Hundred And Eighteen Point One One
14	Civil	PWD-2023	v) Electro fusion welding joint(up to 110 mm)	Each	12.000	502.940	Five Hundred And Two Point Nine Four	6035.280	Six Thousand And Thirty-Five Point Two Eight
15	Civil	PWD-2023	vi)Electro fusion welding joint(over 110 mm)	Each	5.000	624.700	Six Hundred And Twenty-Four Point Seven	3123.500	Three Thousand One Hundred And Twenty-Three Point Five
16	Civil	PWD-2.10.1	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	24.000	1183.760	One Thousand One Hundred And Eighty-Three Point Seven Six	28410.240	Twenty-Eight Thousand Four Hundred And Ten Point Two Four
17	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 Engineering in charge, and standard detail drawings for all water pipe line diameters. .	cum	56.500	1183.760	One Thousand One Hundred And Eighty-Three Point Seven Six	66882.440	Sixty-Six Thousand Eight Hundred And Eighty-Two Point Four Four
18	Civil	PWD-2.13	Back filling by excavated granular soil including depositing and compaction at all required depth in	cum	24.000	225.530	Two Hundred And Twenty-	5412.720	Five Thousand Four Hundred

			accordance with the technical specification by excavated soil for kutchra road surface.				Five Point Five Three		And Twelve Point Seven Two
19	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	47.000	77.930	Seventy-Seven Point Nine Three	3662.710	Three Thousand Six Hundred And Sixty-Two Point Seven One
20	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	12.000	350.680	Three Hundred And Fifty Point Six Eight	4208.160	Four Thousand Two Hundred And Eight Point One Six
21	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) 75 to 315mm dia PVC	Nos	5.000	2418.340	Two Thousand Four Hundred And Eighteen Point Three Four	12091.700	Twelve Thousand And Ninety-One Point Seven
22	Civil	PWD-3.5	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	1.080	11431.020	Eleven Thousand Four Hundred And Thirty-One Point Zero Two	12345.501	Twelve Thousand Three Hundred And Forty-Five Point Five Zero One
23	Civil	DWASA-11 W-76 SL. No-2.24	To avoid the disturbance and obstruction of traffic movement, steel sheet would be provided on the trench of storm sewer at the traffic crossing point. The size of the steel sheet will be 3.65m x 0.6m x 25mm thick. The sheet will be placed across the trench horizontally as per site requirement. After completion of the work and proper compaction of trench the sheet will be removed from the site etc. all complete as per direction of the E/c.	sqm	17.520	486.590	Four Hundred And Eighty-Six Point Five Nine	8525.056	Eight Thousand Five Hundred And Twenty-Five Point Zero Five Six

24	Civil	DWASA-11 W-47 SL. No-21"	Reconstruction & repair of service manhole (sewer pit) Reconstruction & repair of broken service manhole (sewer pit) including supply of bricks sand cement, khoa with labor/Mistry I/C, Supply of all other materials as per direction of the E/C.	Each	6.000	1826.460	One Thousand Eight Hundred And Twenty-Six Point Four Six	10958.760	Ten Thousand Nine Hundred And Fifty-Eight Point Seven Six
25	Civil	"DWASA-11 W-47 SL. No-23"	Hire Charge of road surface cutter machine(Mechanically). During construction/rehabilitation of water to cut of dismantling the R.C.C/C.C Asphalt and Bituminous road surface by open cut method using hard surface mechanical cutting machine with necessary removal of dismantled materials providing temporary indication board, etc, complete.	Meter	65.000	90.110	Ninety Point One One	5857.150	Five Thousand Eight Hundred And Fifty-Seven Point One Five
26	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	8.000	2266.930	Two Thousand Two Hundred And Sixty-Six Point Nine Three	18135.440	Eighteen Thousand One Hundred And Thirty-Five Point Four Four
27	Civil	MR	Traffic Managent Etc. all complete as per E/C.a) Traffic signalman /flagman	Each	12.000	800.000	Eight Hundred	9600.000	Nine Thousand Six Hundred
28	Civil	MR	Safety Barrier for construction works	LS	2.000	5500.000	Five Thousand Five Hundred	11000.000	Eleven Thousand
							Grand Total:	348560.296	Three Lakh Forty-Eight Thousand Five Hundred And Sixty Point Two Nine Six

This Bill of Quantities is Electronically Signed by Mr. Md. Khan on behalf of R T R ENTERPRISE