

Section-06
Bill of Quantities

Name of Work : Interconnections of 160mm and 110mm dia HDPE pipe at Allenbari DMA-509 under Mods Zone-5.

Item No	Basis of Rate	Group	Description of the items	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
1	2	3	4	5	6	7	8=(5*7)
1	C-1.6, PWD-2022 (Revised)	Civil	Providing layout and carry over PWD/ temporary 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), setting and marking all pillars, marker, pegs etc. showing an 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	90.000	33.001	2,970.090
2	C-1.7, PWD-2022 (Revised)	Civil	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 covers 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 safety and security in all respects, and to stockpile 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	Sqm	150.000	218.001	32,700.150

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Item No	Basis of Rate	Group	Description of the items	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
3	C-2.1.2, PWD-2022 (Revised)		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.				
			Earth work in excavation	Cum	155.388	288.001	44,751.755
4	Approved Rate	Civil	'Laying of HDPE Water pipe line in accordance with the technical specification and the standard details drawing of any diameter and to the depth specified below,) de-watering of the trench to keep the trench in a dry condition at all times the preparation of trench bottom, provision & laying of sand bedding & surrounding materials including boxing if required up to a depth of 1.5 M transport to site, Laying jointing and cleaning of the water pipe lines, back filling of the trench with selected excavated earth to the temporary road reinstatement, removal and disposal of surplus excavated materials and transporting back the surplus materials to Dhaka (cost of excess excavated earth shall be deducted from the contractor's bill as per rate mentioned in the departmental materials schedule). a) 200mm dia HDPE Pipe (PN-10) b) 160 mm dia HDPE Pipe (PN-10) c) 110 mm dia HDPE Pipe (PN-10)				

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Item No	Basis of Rate	Group	Description of the items	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
			HDPE Pipe (Only Laying Charge)	M	150.000	990.001	148,500.150
5	Approved Rate	Civil	Extra-over item 1 for supplying and installing of HDPE (PN16, PE 100, SDR 11) fittings in accordance with the technical specification and the standard detailed drawings, of any diameter specified below. The rate includes for transportation of fittings to site, cleaning, jointing and laying of the fittings as per specifications and direction of Engineering in charge. HDPE SLEEVE (EF) 110 MM (Only Laying Charge)				
			a) HDPE SLEEVE (EF) 110 MM (Only Laying	Nr.	14.000	1,495.001	20,930.014
			b) HDPE SLEEVE (EF) 160 MM (Only Laying	Nr.	18.000	1,495.001	26,910.018
			c) HDPE SLEEVE (EF) 200 MM (Only Laying	Nr.	3.000	1,495.001	4,485.003
			d) HDPE Bend (EF) 160 MM X 90 ° (Only Laying Charge)	Nr.	1.000	1,495.001	1,495.001
			e) HDPE TEE (EF) 200 MM X 160 MM X 200 MM (Only Laying Charge)	Nr.	1.000	3,025.001	3,025.001
			f) HDPE TEE (EF) 110 MM X 110 MM X 110 MM. (Only Laying Charge)	Nr.	1.000	3,025.001	3,025.001
			g) HDPE TEE (EF) 160 MM X 110 MM X 160 MM (Only Laying Charge)	Nr.	1.000	3,025.001	3,025.001
			h) HDPE Bend (EF) 110 MM X 90 ° (Only Laying Charge)	Nr.	4.000	1,495.001	5,980.004
			i) Stub End 160 mm (Only laying Charge)	Nr.	1.000	1,416.001	1,416.001
			j) Stub End 110 mm (Only laying Charge)	Nr.	1.000	710.001	710.001
6	PWD-2022 (Revised) C-2.19.1	Civil	Hire charge of de-watering Pump :Bailing out of all water from pipe linetrench with supply of de-watering pumprequired size including supplying of fuellubricants and all other requiredaccessories & manpower to keep the trench in a dry condition at all times etc.all completed as per direction of the E/C.				
			Bailing out water	Day	5.000	1,862.001	9,310.005


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Item No	Basis of Rate	Group	Description of the items	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
7	C-2.10.2, PWD-2022 (Revised)	Civil	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 up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge (main backfill)	Cum	56.488	1,167.001	65,921.395
8	C-2.10.2, PWD-2022 (Revised)	Civil	Earth filling in foundation trenches and plinth in 150 mm layer with earth available within 90 m of the building site to achieve 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	86.625	207.001	17,931.462
9	Approved Rate	Civil	standard detailed drawings, of any diameter, specified below. The rate includes for transportation of plants to site, excavation, backfilling, dewatering, cleaning, jointing and laying of the plants as per specifications and direction of Engineering in charge as per specifications and the standard detail drawing and direction of the Engineer in charge. Plants will be supplied from DWASA,	each	1.000	3,178.001	3,178.001
10	Approved Rate	Civil	Procurement, carrying, supplying of all necessary materials and Construction of Gate valves surface box in the network including supports and all piping, fittings and other equipment in accordance with the specification and standard detail drawings	each	1.000	5,000.001	5,000.001






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Item No	Basis of Rate	Group	Description of the items	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
11	C-2.14, PWD-2022 (Revised)	Civil	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. 110/160 mm dia	each	2.000	2,809.001	5,618.002
12	Approved Rate	Civil	procurement, carrying, supplying materials and making of service connection for all depths, diameters, length up to consumers premises. The rate includes cost for excavation, all necessary HDPE service connection pipe, HDPE fittings (saddle clamp, ferrule, straight coupling, valves etc.), appropriate drilling system for making holes in pipes, backfilling with sand (FM 0.8), precautions necessary to avoid damage of underground utility services, (if any damage occurs, Contractor shall repair it by his own cost), plugging, de-watering, cleaning, unplugging. The contractor will keep record of total number service connections provided to the households. All works shall be done as per specifications and the standard detail drawing and direction of the Engineer. Service connections of different diameters (20 mm, 25 mm, 37 mm, 50 mm, 75 mm) from distribution network composed of HDPE pipes of different diameters	Nr.	1.000	4,553.001	4,553.001





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Item No	Basis of Rate	Group	Description of the items	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
13	Approved Rate	Civil	Reconstruction and repairing of other utilities services (Telephone/Gas/Electricity/Sewer/surface & underground drains/storms sewer pit or any other system in the pipe alignment), includes all necessary materials, cables, replacement, reinstallation, repairing of broken service manhole, sewer pit including supply of all types of cables, pipes, fittings, course & fine aggregates, bricks, cement and any other works in accordance with Technical Specification and direction of Engineering in charge, each unit includes total safety, repair, replacement of other utilities for each 100 meter pipelines alignment, all mentioned cost will be paid by Contractor.	Nr.	1.000	1,500.001	1,500.001
14	Approved Rate	Civil	Road Safety measures Emergency Light, Flag, and tools as per deriection of Engineer in Charge.	L/S	1.000	20,000.001	20,000.001
15	Approved Rate	Civil	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 technical specification and direction of Engineering in charge and standard drawings. The rate to include for necessary additional excavation; supply of all materials and for the wrapping of all HDPE fittings encased in concrete with two layers of heavy-duty polythene sheeting.	Cum	1.296	7,149.001	9,265.105
16	Approved Rate	Civil	The excavation of trial holes (1.2 m x 0.6 m x 1.5m) in accordance with the technical specification. and Standard detail drawings and direction of Engineer in charge.	Nr.	8.000	1,293.001	10,344.008





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Item No	Basis of Rate	Group	Description of the items	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
17	Approved Rate	Civil	Hire Charge of road surface Cutter Machine for Heavy surfaced Road (Mechanically). During construction/Rehabilitation of water to cut or 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 (As per item no 1 both site).	Rm	60.000	92.501	5,550.060
18	Approved Rate	Civil	Operating cost for Electro-fusion & Butt-fusion machine	Day	10.000	2,500.001	25,000.010

Total Amount Tk. = 483,094.242

In word (Taka): Four Lakh Eighty Three Thousand Ninety Four Point Two Four Two Only.

Tender Price quoted by the Tenderer: 2.10 % (Two Point One Zero percent) above / below / at par the total estimated cost in the BOQ

[strike out the inappropriate]

This Bill of Quantities contains [

] corrections duly initialled and signed by the Tenderer

In Word (Taka):

483,094.242

Four Lac Seventy Two Thousand Nine Hundred Forty Nine and Two Six Three

Note :

1. It is suggested that the Tenderer uses these sheets of the BOQ in order to avoid any manipulation, distortion and inadvertent mistakes or omissions in course of preparing the Tender by the Tenderer
2. Tenderer's profit, overheads, VAT and all other charges including corresponding incidental service charges for banking shall be deemed included in all the unit rates and prices in the BOQ against each basic item or activity and, thus forth the total Tender Price quoted by the Tenderers.
3. Follow the Guidance notes under Section 6 in filling this Schedule

Tamir
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 Managing Director
 Hermans Synergy Ltd