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**Section - 6**

**SPECIFICATIONS**

**(General specifications have been mentioned in drawings  
and Bills of Quantities)**

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• Section - 7

• **BILLS OF QUANTITIES**

- 1. Include Preliminary Bill items as Bill No. 1**
- 2. VAT Component shall be filled in Bills of Quantities and it shall not be carried to Form of Bid.**
- 3. Any discount offered will not be considered for Provisional Sum Items**

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**COLOMBO MUNICIPAL COUNCIL**  
**MUNICIPAL ENGINEER'S DEPARTMENT**

**PROJECT: CONSTRUCTION OF NEW SEWER LINE ALONG THE KINROSS AVENUE, COLOMBO-04**

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	<b>Bill No 01</b>				
1.0	<b>Preliminaries</b>				
1.1	Provisional sum for providing Performance security.		Provisional sum		15,000.00
1.2	Provisional sum for providing an Advance Payment security.		Provisional sum		55,000.00
1.3	Provisional sum for insurance of the works, Machinery & equipment, Plant, Materials, third party persons & property and Employer's personnel & property at site as per contract.		Provisional sum		45,000.00
1.4	Provisional sum for insurance of against accident and injury to contractor's personnel as per th contract..		Provisional sum		50,000.00
1.5	<b>Contractor's Facilities</b> Allow lump sum for constructing, maintaining, dismantling and removal on completion of the works, a temporary site office of adequate size including staff rest roomand toilets and other facilities for the contractor's site management staff in accordance with the plans prepared by the Contractor and concurred by the Engineer.	Item	Allow	Sum	

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ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
1.6	Allow lump sum for constructing, maintaining, dismantling and removal on completion of the works, building to be used as workshops and stores for perishable materials. Buildings shall be constructed in accordance with the drawing prepared by the Contractor and concurred by the Engineer. The lump sum shall also include for altering, modifying or dismantling and re-erecting within the site all temporary buildings/structures if required.	Item	Allow	Sum	
1.7	Allow lump sum for constructing, maintaining, dismantling and removal on completion of the works, temporary building to in accordance with the plans prepared by the Contractor and concurred by the Engineer to accommodate by the following:  a) Workers' rest room, canteen facilities, kitchen b) Toilet & wash areas. c) Sick/First - Aid room d) Accomadation for Contractor's staff and workmen including sanitary facilities on site of applicable. Facilities to workmen shall conform to the latest public health and industrial regulation.	Item	Allow	Sum	
1.8	Allow lump sum for providing Accomadation including sanitary facilities and transport Contractor's staff and workment off site.	Item	Allow	Sum	
1.9	Allow lump sum for providing telephone and facsimile facilities, electricity and water services for the contractor's site office for their use in connection with the works.	Item	Allow	Sum	

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
1.10	Allow lump sum for maintenance, rental, consumption charges etc. for telephone and facsimile facilities, electricity and water services for the contractor's site office for their use in connection with the works.	Item	Allow	Sum	
1.11	Allow lump sum for contractor's transport facilities at site.	Item	Allow	Sum	
	<b><u>SETTING OUT</u></b>				
1.12	Allow lump sum for employing a licensed land surveyor to define the building site work etc., check levels and carry out such other surveys as may be necessary to establish accurately the placing of forms and pouring of concrete and all other setting out in both vertical and horizontal plane.	Item	Allow	Sum	
1.13	Allow lump sum for setting out of works in accordance with drawing and other written information given by the Engineer.	Item	Allow	Sum	
	<b><u>QUALITY, STANDARDS &amp; PROGRESS</u></b>				
1.14	Allow Lump sum for provision of progress report photographic record and other schedules including in the ICTAD publication-Guideline for Effective Construction Management. (ICTAD/CM/01), relevant to contract administration as directed by the Engineer.	Item	Allow	Sum	
1.15	Allow lump sum for all cost in connection with preparing samples for testing, making arrangement for testing of materials, goods etc, as stipulated in the specification, obtaining test reports and submitting the same to the Engineer.	Item	Allow	Sum	

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
1.16	Allow lump sum for provision of shop drawings, bar schedules etc. for Engineer's approval.	Item	Allow	Sum	
1.17	Allow lump sum for provision of 2 sets of (hard copies and soft copies) as-built drawings of all services, for Engineer's approval.	Item	Allow	Sum	
	<b>Health, Safety &amp; Environment</b>				
1.18	<p>Allow lump sum for following services throughout the period of construction for Engineer's office, contractor's site office and worker's rest room and other facilities;</p> <p>a) Employing Workmen to clean and maintain all areas to be in good hygienic conditions including toilets, wash areas, kitchen etc. rest room, canteen facilities, kitchen</p> <p>b) Supplying adequate drinking water, water for washing purposes, soap, detergent, etc. throughout the period of construction.</p>	Item	Allow	Sum	
1.19	Allow Lump sum for providing all necessary safety measures to workmen at site conforming to the latest industrial safety regulation and as directed by the Engineer.	Item	Allow	Sum	
1.20	Allow Lump sum for making adequate provision against air and noise pollution of surrounding areas. Hoarding and dust screens shall be provided to control dust escaping to surrounding areas.	Item	Allow	Sum	
1.21	Allow Lump sum for maintaining the site in a clean and orderly manner at all times and during the entire contract period.	Item	Allow	Sum	

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
1.22	Allow Lump sum for demobilization, removal of all rubbish & debris and clearing up site on completion, leaving all in good order and handing over.	Item	Allow	Sum	
1.23	Allow Lump sum for Traffic arrangement during construction period including provide sign boards, night time warning lights etc...	Item	Allow	Sum	
1.24	Allow lump sum for providing and maintaining necessary fencing, hoarding, and gates for safeguarding the works, materials and plant as directed by the Engineer.	Item	Allow	Sum	
1.25	Allow lump sum for protection of public and privet services at site. The contractor shall take due care to protect, water supply and drainage systems, telephone and overhead/buried electrical cables etc. whose location are identified and made available to the bidder at the time of bidding, unless earmarked for demolition, during the execution of the works. the contractor is to make good any cause within is control at his own expense or pay any cost and charges in connection therewith.	Item	Allow	Sum	
1.26	Allow lump sum for supply of water for the works and paying all charges and other expenses in connection with the supply from water mains or any other alternative method of water supply, strage and retriulation.	Item	Allow	Sum	
1.27	Allow lump sum for supplying temporary electricity for the works including connection, distribution system for the works, internal arrangements and all payments to the authorities for consumption.	Item	Allow	Sum	

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ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
1.28	Allow lump sum for providing hoisting equipment and other plant for the use of the works on site(dry hire).	Item	Allow	Sum	
1.29	Allow lump sum for providing small machinery and equipment for the use of the works at site.	Item	Allow	Sum	
1.30	Allow lump sum for stamp duty in accordance with the prevailing regulations of the Government.	Item	Allow	Sum	
1.31	Allow lump sum for providing and maintaining a name board to the specifications and/or directed by the Engineer.	Item	Allow	Sum	
1.32	Allow lump sum for excavation for trial pits/trial trenches as specified or as directed by the engineer as for location services etc. and reinstating the ground and making good disturbed work to the satisfaction of the Engineer.	Item	Allow	Sum	
	<b><u>Total Preliminaries carried over to summary</u></b>				



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**CONSTRUCTION OF NEW SEWER LINE ALONG THE KINROSS AVENUE, COLOMBO-04**

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	<b>Note : All the items below, rate included for supplying of materials.</b>				
	<b>Bill No 2.0</b>				
<b>2.1</b>	<b>PIPE WORK</b>				
	Item shall include excavation in trenches, removal of excess earth, shoring, preparation surfaces, backfilling and compaction with suitable imported available material by 150mm thick compacted layers. Provide grade 600 UPVC pipes of nominal bore 225mm diameter in open trenches.				
2.1.1	Invert Depth not exceeding 1.00m	Lm	78.00		
2.1.2	Invert Depth not exceeding 1.50m	Lm	152.00		
2.1.3	Invert Depth not exceeding 2.00m	Lm	90.00		
<b>2.2</b>	<b>CONCRETE</b>				
	100mm thick 460 mm width 1:2:4(20mm) cement concrete in bed and haunching including form work throughout the 225mm diameter pipes as per detailed <b>Drawing No.ME/DR/AB/SW/11/2021/DR-05</b>	m <sup>3</sup>	29.3		
<b>2.3</b>	<b>MANHOLE</b>				
	Item shall include excavation, removal of excess earth, preparation of surface, shoring, dewatering backfilling and compaction with suitable available material 150mm thick compacted layers. Form work, concrete work, reinforcement, connection of pipe ends, providing and placing of D400 Type clear opening of 600mm dia. DI Cover & Frame, comply with (BS EN 124) & 25mm dia. solid hot dip galvanized steel steps at 300mm c/c. comply with (BS EN/ISO 1461 :2009)				
	750X750mm internal dimensions, 75mm thick screed with 1:3:6 (25mm) cement concrete & 200mm thick base and walls with Grade 25 [1 : 1 1/2 : 3(20mm)] concrete, Single reinforced rectangular manholes. Rate to include for 1:3 cement sand plaster in benching and concrete walls should have a satisfactory smooth finish, plastering not allowed. <b>Drawing No.ME/DR/AB/SW/11/2021/DR-03</b>				
2.3.1	Invert depth not exceeding 1.0m (MH2, MH3, MH4, MH7)	No	4.00		

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
2.3.2	Invert depth not exceeding 1.5m (MH1,MH5,MH6,MH10,MH11)	No	5.00		
2.3.2	Invert depth not exceeding 2.0m (MH8,MH9)	No	2.00		
2.4	<b>TEMPORARY REINSTATEMENT</b> Removing of Asphalt paved surface and temporary reinstatement dealing with all existing utility services.	m <sup>2</sup>	320.00		
2.5	<b>PERMANENT REINSTATEMENT</b> Permenent reinstatement of damaged Asphalt surface at Kingrose Avenue	Provisional Sum			
2.6	<b>CONNECTION</b> Item shall include back drop connection of proposed sewer line to CMC sewer line at Kingrose Avenue as per Drawing No.ME/DR/AB/SW/11/2021/DR-04	Item	Allow	Sum	
2.7	<b>TEMPORARY DIVERSION</b> Temporary plug the upstream and down stream flow (from manhole).Item shall include temporary dewatering to fix the plugs and maintain these through out the construction period and maintain odor free environment	Provisional Sum			
2.8	<b>PROTECTION OF OTHER SERVICES</b> Protection of other services. (Rate shall include for precautions to these service lines or diverting them and repairs to structures if it is damaged due to costruction processes.)	Provisional Sum			500,000.00
<b>Total</b>					

SUMMARY	
Bill No 01	
Bill No 02	
<b>Sub Total</b>	
10% Contingencies	
5% Price Fluctuation	
<b>Total</b>	
8% VAT	
<b>Grand Total</b>	

Bidder's Signature .....

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**Section -8**  
**DRAWINGS**