

A. Bidding Documents, Volume I, Section IV, Bidding Forms, of Bid Security

The Form of Bid Security is reissued with the Tender Number corrected, as follows.

B. QUERIES BY BIDDERS AND RESPONSE / CLARIFICATION

1) Query 1:

*Clarification of Bid Security: The tender number used in bid security form is different from the one shown in the contract. The tender number is AWSB/KfW/NST-WSDP/OL01/02/2018 in the bid security but the contract tender number is **AWSB/KfW/NST/W/02/2018**. Please clarify.*

Response:

The tender number is AWSB/KfW/NST/W/02/2018

The corrected bid security form is issued with Addendum 01.

2) Query 2:

Clarification of BoQ Description: We have found the discrepancy in Tender Lot 1 that the descriptions of the HDPE pipe in BoQ Bill 3, Bill 6.1, Bill 6.2, Bill 6.3 and Bill 9 are different to Bill 7. From the supplier's feedback HDPE pipe SDR 11, in most of the circumstances, shall be matched with PN 16. Please clarify that, for above bills, which SDR & PN shall be applied, SDR 17(PN10) or SDR 11(PN16). Please note that the above discrepancy exists in Tender Lot 2 as well.

Response:

As stated in Volume II, Section I, Part II, Particular Specifications, Section 2114 HDPE Pipes, Section 2114.1 Standards, HDPE pipes must be:

- Main Lines: HD-PE 100, SDR 17, PN 10 or HD-PE 100, SDR 11, PN 16 as per BoQ
- Consumer Connections: HD-PE 80, SDR 11, PN 10

For main lines this specification applies and there is a typo mistake in the BoQ descriptions, which is corrected as per Addendum 01.

For Consumer Connections, bidders can alternatively offer HD-PE 100, SDR 17, PN 10, **minimum wall thickness 2.0mm**.

3) Query 3:

We kindly request extension of tender submission date to enable us to quote the price more accurately and prepare the document more properly

Response:

Refer to Addendum 01.

C. BIDDING DOCUMENTS, VOLUME I, SECTION IV, BIDDING FORMS, BILLS OF QUANTITIES

The following Bills are amended, with **amended items and quantities shown in red.**

1. BILL 1 – PRELIMINARY AND GENERAL ITEMS

The following Section is removed:

ITEM	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
	<u>Special Requirements</u>				
	<u>Office Space for Engineer's Staff</u>				
1A211.1	PC Sum of KShs 5,000,000 for (i) Provision of rented offices for the Resident Engineer within Ongata Rongai Area as per the Specifications, including monthly payments for water, sewerage, electrical supply, telephone, etc. as specified and to the approval of the Resident Engineer.	Sum			5,000,000.00
1A211.2	Provisional Sum of Kshs 2,000,000 for provision of Furniture and Equipment for the Resident Engineer's Office to specifications.	Sum			2,000,000.00
1A211.3	Add% for profit, administration, attendance upon, overheads, etc. for Item 1A211.1-2.	%	7,000,000		
1A211.4	Maintenance and attendance of the Resident Engineer's Office, including supply of provisions and consumables as specified for the duration of the Contract. Note: Contractor to price for the monthly requirement of stationery, cleaning materials and other consumables as specified.	month	18	50,000.00	900,000.00
	<u>Resident Engineer's Staff</u>				
1A214.1	Provide provisional Sum of Kshs 3,000,000 for rent of Accommodation for Resident Engineer and two (2) Assistant Resident Engineers to the approval of the Project Manager as detailed in the specifications for 18 months; the amount to be expended on a monthly basis.	Sum			3,000,000.00
1A221.6	Percentage adjustment to the provisional sum for Items 1A214.1	%	3,000,000		
	<u>Transport for Engineer's Staff</u>				
A221.1	Provisional sum of Kshs 18,000,000 for purchase of three (3) Double Cabin Vehicles (2400cc) for use by Engineer's Staff as instructed. Vehicles to revert to the Employer at the end of the Project.	Sum			

A221.2	Provisional sum for purchase of one (1) Station Wagon Vehicle (2800cc) for use by Engineer's Staff as instructed. Vehicles to revert to the Employer at the end of the Project.	Sum			
1A221.3	P.C. Sum of Kshs 1,800,000 for provision of Comprehensive Insurance Cover for the Project Vehicles above for a period of 3 years up to the end of the Defects Liability Period.	Sum			
1A221.4	Operation, servicing and maintenance and of the transport vehicles as per item A221.1 for the contract period.	km	400,000		
1A221.5	Allow a provisional sum for final repairs and rehabilitation of the vehicles (Item A221.1 and A221.2) before they revert to Employer at the end of the contract.	Sum			1,000,000.00
1A221.6	Percentage adjustment to the provisional sum for Items 1A221.1 to 1A221.5	%	1,000,000		
1A221.2	Provision sum of temporary vehicles for the Resident Engineer's use while Contract vehicles are being procured.	km	40,000		

And replaced in entirety with the following:

ITEM	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
	<u>Special Requirements</u>				
	<u>Office Space for Engineer's Staff</u>				
1A211.1	PC Sum of KShs 5,000,000 for (i) Provision of rented offices for the Resident Engineer within Ongata Rongai Area as per the Specifications, including monthly payments for water, sewerage, electrical supply, telephone, etc. as specified and to the approval of the Resident Engineer.	Sum			5,000,000.00
1A211.2	Provisional Sum of Kshs 2,000,000 for provision of Furniture and Equipment for the Resident Engineer's Office to specifications.	Sum			2,000,000.00
1A211.3	Add% for profit, administration, attendance upon, overheads, etc. for Item 1A211.1-2.	%	7,000,000		
1A211.4	Maintenance and attendance of the Resident Engineer's Office, including supply of provisions and consumables as specified for the duration of the Contract. Note: Contractor to price for the monthly requirement of stationery, cleaning materials and other consumables as specified.	month	18	50,000.00	900,000.00
	<u>Resident Engineer's Staff</u>				

1A214.1	Provide provisional Sum of Kshs 3,000,0000 for rent of Accommodation for Resident Engineer and two (2) Assistant Resident Engineers to the approval of the Project Manager as detailed in the specifications for 18 months; the amount to be expended on a monthly basis.	Sum			3,000,000.00
1A221.6	Percentage adjustment to the provisional sum for Items 1A214.1	%	3,000,000		
	<u>Transport for Engineer's Staff</u>				
A221.1	Provisional sum of Kshs 18,000,000 for purchase of three (3) Double Cabin Vehicles (2400cc) for use by Engineer's Staff as instructed. Vehicles to revert to the Employer at the end of the Project.	Sum			18,000,000.00
A221.2	Provisional sum for purchase of one (1) Station Wagon Vehicle (2800cc) for use by Engineer's Staff as instructed. Vehicles to revert to the Employer at the end of the Project.	Sum			7,000,000.00
1A221.3	P.C. Sum of Kshs 1,800,000 for provision of Comprehensive Insurance Cover for the Project Vehicles above for a period of 3 years up to the end of the Defects Liability Period.	Sum			1,800,000.00
1A221.4	Operation, servicing and maintenance and of the transport vehicles as per item A221.1 for the contract period.	km	400,000		
1A221.5	Allow a provisional sum for final repairs and rehabilitation of the vehicles (Item A221.1 and A221.2) before they revert to Employer at the end of the contract.	Sum			1,000,000.00
1A221.6	Percentage adjustment to the provisional sum for Items 1A221.1 to 1A221.5	%			
1A221.2	Provision of temporary vehicles for the Resident Engineer's use while Contract vehicles are being procured.	Item	L.S		1,000,000.00

All other parts of Bill 1, Preliminary and General Items, do not change.

2. BILL 2 – TRANSMISSION MAINS; 2.1 KAREN ONGATA RONGAI TRANSMISSION MAIN

The following Section is removed:

ITEM	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
	<p>NOTES:</p> <p>Some of the sites have limited wayleaves. Contractors rates to allow for double haulage of excavated materials or any additional costs for execution of the works. Some of the works are to be carried out within gazetted forest; the Contractor will be required to comply with environmental mitigation measures as detailed in the Environmental Impact Assessment Report. Use of bulk excavation machines may not be possible within the forest.</p> <p>The Contractor will be required to submit Method Statement for execution of works under these specific conditions for approval prior to execution of the works. No blasting will be permitted in these areas</p> <p>2A GENERAL ITEMS Specified Requirements <u>Testing of works</u></p> <p>Carry out pressure testing, cleansing and sterilising of the pipeline in accordance with clauses 440 and 441 of the specification.</p>				
2A260.1	OD 355	m	3,420	250	855,000.00
2A260.1	OD 400	m	5,800	250	1,450,000.00

And replaced in entirety with the following:

ITEM	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
	<p>NOTES:</p> <p>Some of the sites have limited wayleaves. Contractors rates to allow for double haulage of excavated materials or any additional costs for execution of the works. Some of the works are to be carried out within gazetted forest; the Contractor will be required to comply with environmental mitigation measures as detailed in the Environmental Impact Assessment Report. Use of bulk excavation machines may not be possible within the forest.</p> <p>The Contractor will be required to submit Method Statement for execution of works under these specific conditions for approval</p>				

	prior to execution of the works. No blasting will be permitted in these areas				
2A	GENERAL ITEMS				
	Specified Requirements				
	<u>Testing of works</u>				
	Carry out pressure testing, cleansing and sterilising of the pipeline in accordance with clauses 440 and 441 of the specification.				
2A260.1	OD 355	m	3,420		
2A260.1	OD 400	m	5,800		

All other parts of Bill 2 – Transmission Mains, 2.1 Karen Ongata Rongai Transmission Main, do not change.

3. BILL 2.1 – KAREN - ONGATA RONGAI TRANSMISSION MAIN

The following ITEMS are removed:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
	High Density Polyethylene Pipes (HDPE) SDR 11 (PN 10) for with Butt Fusion (seamless) Jointing				
2143.1	OD 355	m	3,420		
2143.2	OD 400	m	5,800		

And replaced in entirety with the following:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
	High Density Polyethylene Pipes (HDPE) SDR 17 (PN 10) for with Butt Fusion (seamless) Jointing				
2143.1	OD 355	m	3,420		
2143.2	OD 400	m	5,800		

All other parts of Bill 2.1 KAREN - ONGATA RONGAI TRANSMISSION MAIN do not change.

4. BILL 3.1 –NKAIRIMUNYA - MBAGATHI RING MAIN

The following ITEM is removed:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
	High Density Polyethylene Pipes (HDPE) SDR 11 (PN 10) for with Butt Fusion (seamless) Jointing				
2143.1	OD 355	m	1,040		

And replaced in entirety with the following:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
2143.1	High Density Polyethylene Pipes (HDPE) SDR 17 (PN 10) for with Butt Fusion (seamless) Jointing OD 355	m	1,040		

All other parts of Bill 3.1 NKAIRIMUNYA - MBAGATHI RING MAIN do not change.

5. BILL 3.4 – KISERIAN RING MAINS

The following ITEMS are removed:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
3143	High Density Polyethylene Pipes (HDPE) SDR 11 (PN 10) for with Butt Fusion (seamless) Jointing OD 225	m	2,600		
3143	OD 355	m	2,500		

And replaced in entirety with the following:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
3143	High Density Polyethylene Pipes (HDPE) SDR 17 (PN 10) for with Butt Fusion (seamless) Jointing OD 225	m	2,600		
3143	OD 355	m	2,500		

All other parts of Bill 3.4 KISERIAN RING MAINS do not change.

6. BILL 4.1 – Headworks Kiserian Office Rising Main

The following ITEMS are removed:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
4143.1	High Density Polyethylene Pipes (HDPE) SDR 11 (PN 10) for with Butt Fusion (seamless) Jointing OD 90	m	1,610		
4143.2	OD 225	m	910		

And replaced in entirety with the following:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
4143.1	High Density Polyethylene Pipes (HDPE) SDR 11 (PN 16) for with Butt Fusion (seamless) Jointing OD 90	m	1,610		
4143.2	OD 225	m	910		

All other parts of Bill 4.1 Headworks Kiserian Office Rising Main do not change.

7. BILL 4.2 – Health Centre Rising Main

The following ITEMS are removed:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
4143.1	High Density Polyethylene Pipes (HDPE) SDR 11 (PN 10) for with Butt Fusion (seamless) Jointing OD 90	m	780		

And replaced in entirety with the following:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
4143.1	High Density Polyethylene Pipes (HDPE) SDR 11 (PN 16) for with Butt Fusion (seamless) Jointing OD 90	m	780		

All other parts of Bill 4.2 Health Centre Rising Main do not change.

8. BILL 4.3 – Gataka Nkaimurunya Pumping Main

The following ITEMS are removed:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
4143.1	CLASS I: PIPEWORK - PIPES <i>Supply, Transport to Site and Store</i> High Density Polyethylene Pipes (HDPE) SDR 11 (PN 10) for with Butt Fusion (seamless) Jointing OD 90	m	1,939		
4143.1	CLASS I: PIPEWORK - PIPES <i>Supply, Transport to Site and Store</i> High Density Polyethylene Pipes (HDPE) SDR 11 (PN 10) for with Butt Fusion (seamless) Jointing OD 90	m	1,939		

And replaced in entirety with the following:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
4143.1	CLASS I: PIPEWORK - PIPES <i>Supply, Transport to Site and Store</i> High Density Polyethylene Pipes (HDPE) SDR 11 (PN 16) for with Butt Fusion (seamless) Jointing OD 90kj	m	1,939		

All other parts of Bill 4.3 Gataka Nkaimurunya Pumping Main do not change.

9. BILL 5.1 - ONGATA RONGAI DISTRIBUTION NETWORK

The following ITEMS are removed:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
	District Meetering Areas (DMAs) 10, 13, 14 & 15				
	<u>High Density Polyethylene Pipes HD-PE 100 SDR 17, PN 16, ISO 4427:2007 with Butt Fusion (seamless) Jointing</u>				
1712.1	OD 50 mm in trenches, depth not exceeding 1.5 m	m	7200		
1712.1	OD 63 mm in trenches, depth not exceeding 1.5 m	m	17350		
1712.2	OD 90 mm in trenches, depth not exceeding 1.5 m	m	10900		
1712.3	OD 110 mm in trenches, depth not exceeding 1.5 m	m	3400		
1712.4	OD 160 mm in trenches, depth not exceeding 1.5 m	m	5700		
1722.1	OD 225 mm in trenches, depth not exceeding 1.5 m	m	2300		
1722.2	OD 225 mm in trenches, depth 1.5 to 2.0m	m	900		
1732.1	OD 355 mm in trenches, depth not exceeding 1.5 m	m	1000		
1732.2	OD 355 mm in trenches, depth 1.5 to 2.0m	m	500		
1732.3	OD 355 mm in trenches, depth 2.0 to 2.5m	m	300		

And replaced in entirety with the following:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
	District Meetering Areas (DMAs) 10, 13, 14 & 15				
	<u>High Density Polyethylene Pipes HD-PE 100 SDR 17, PN 10, ISO 4427:2007 with Butt Fusion (seamless) Jointing</u>				
1712.1	OD 50 mm in trenches, depth not exceeding 1.5 m	m	7200		
1712.1	OD 63 mm in trenches, depth not exceeding 1.5 m	m	17350		
1712.2	OD 90 mm in trenches, depth not exceeding 1.5 m	m	10900		
1712.3	OD 110 mm in trenches, depth not exceeding 1.5 m	m	3400		
1712.4	OD 160 mm in trenches, depth not exceeding 1.5 m	m	5700		
1722.1	OD 225 mm in trenches, depth not exceeding 1.5 m	m	2300		
1722.2	OD 225 mm in trenches, depth 1.5 to 2.0m	m	900		
1732.1	OD 355 mm in trenches, depth not exceeding 1.5 m	m	1000		
1732.2	OD 355 mm in trenches, depth 1.5 to 2.0m	m	500		
1732.3	OD 355 mm in trenches, depth 2.0 to 2.5m	m	300		

All other parts of Bill 5.1 Ongata Rongai Distribution Network do not change.

10. BILL 5.1 - ONGATA RONGAI DISTRIBUTION NETWORK

The following ITEM is removed:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
X994	Miscellaneous Works (Provisional) Provisional Sum for other miscellaneous Works that may be required on site to be carried out as directed by the Engineer.	P.S.	1		

And replaced in entirety with the following:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
X994	Miscellaneous Works (Provisional) Provisional Sum for other miscellaneous Works that may be required on site to be carried out as directed by the Engineer.	P.S.	1	100,000.00	100,000.00

All other parts of Bill 5.1 – Ongata Rongai Distribution Network do not change.

11. BILL 5.2 - KISERIAN DISTRIBUTION NETWORK

The following ITEM is removed:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
X994	Miscellaneous Works (Provisional) Provisional Sum for other miscellaneous Works that may be required on site to be carried out as directed by the Engineer.	P.S.	1		

And replaced in entirety with the following:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
X994	Miscellaneous Works (Provisional) Provisional Sum for other miscellaneous Works that may be required on site to be carried out as directed by the Engineer.	P.S.	1	100,000.00	100,000.00

All other parts of Bill 5.2 – Kiserian Distribution Network do not change.

12. BILL 6 – Consumer Connections

The following ITEMS are removed:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
9I712.1	<u>HD-PE 80 SDR 11, PN 10</u> OD 20	m	48,000		

9I712.2	OD 25	m	19,500		
9I712.3	OD 32	m	31,200		
9I712.4	OD 40	m	19,500		
9I712.5	OD 50	m	3,900		
9I712.6	OD 63	m	3,900		

And replaced in entirety with the following:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
	HD-PE 80 SDR 11, PN 10 or HD-PE 100 SDR 17, PN 10				
9I712.1	OD 20	m	48,000		
9I712.2	OD 25	m	19,500		
9I712.3	OD 32	m	31,200		
9I712.4	OD 40	m	19,500		
9I712.5	OD 50	m	3,900		
9I712.6	OD 63	m	3,900		

All other parts of Bill 6 Consumer Connections do not change.

13. **BILL 7.1 – NKAIMURUNYA WATER TANK SITE; BILL 7.1D GRADE 9 STAFF HOUSE**

The following ITEM is removed:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
X93.3	Provide Provisional sum of Kshs 300,000 for supply and installation of all electrical fittings in the house as directed by the Engineer. Include for complete wiring, installation of consumer meters, power sockets, lighting systems and connection to existing grid as directed	Sum			

And replaced in entirety with the following:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
X93.3	Provide Provisional sum of Kshs 300,000 for supply and installation of all electrical fittings in the house as directed by the Engineer. Include for complete wiring, installation of consumer meters, power sockets, lighting systems and connection to existing grid as directed	Sum			300,000.00

All other parts of Bill 7.1 – Nkaimurunya Water Tank Site, BILL 7.1D Grade 9 Staff House, do not change

14. **BILL 10 - OLOOLAISER MBAGATHI OFFICES; BILL 10.2 - PIPE FITTINGS STORE**

The following ITEM is removed:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
	<u>ELECTRICAL WORKS</u>				

5X12	Provide the provisional sum of 100,000 for supply and installation of all electrical fittings in the office as directed by the Engineer. Include for complete wiring, installation of power sockets, lighting systems, Internet wireless trunking and connection to existing grid as directed by the Engineer.	Sum			
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And replaced in entirety with the following:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
5X12	<u>ELECTRICAL WORKS</u> Provide the provisional sum of 100,000 for supply and installation of all electrical fittings in the office as directed by the Engineer. Include for complete wiring, installation of power sockets, lighting systems, Internet wireless trunking and connection to existing grid as directed by the Engineer.	Sum			100,000.00

All other parts of Bill 10 – Oololaiser Mbagathi Offices; Bill 10.2 Pipe Fittings Store do not change.

D. BIDDING DOCUMENTS, VOLUME III, ENGINEERING DRAWINGS

The following seven Drawings are re-issued and replace the previous versions of these drawings in entirety. The changes are as described:

Drawing No.	Title	Changes compared with previous version*
OL01/GEN/LP/01	PROJECT GENERAL LAYOUT PLAN (OVERALL FOR KAREN; ONGATA RONGAI & KISERIAN)	The Project Area map in the legend, top right, is corrected for clarity.
OL01/BT/KSN/81	SITE LAYOUT PLAN KISERIAN SCHOOL TANK SITE	The Project Area map in the legend, top right, is corrected for clarity.
OL01/BT/NAR/92	SITE LAYOUT PLAN NAROMORU TANK SITE	The Project Area map in the legend, top right, is corrected for clarity.
OL01/BH/KSN/100	SITE LAYOUT HEADWORKS BOREHOLE	The new borehole is now shown as well as the existing borehole, with combined pumping line.
OL01/BH/KSN/101	BOREHOLE DETAILS	This is a standard drawing, applicable to all boreholes, and it was missed from some sets of Bidding Documents.
OL01/BST/PH/105	KISERIAN SCHOOL PUMP HOUSE PIPEWORK	The booster pump station pipework and fittings are revised, with the actual requirements shown on the drawings and in the respective pipework table.
OL01/BST/PH/106	NAROMORU PUMP HOUSE PIPEWORK	The booster pump station pipework and fittings are revised, with the actual requirements shown on the drawings and in the respective pipework table.

**Note: some bidders may have received the above revised drawings already with the issued Bidding Documents, i.e. there are no changes!*