

QUERIES BY BIDDERS AND RESPONSE / CLARIFICATION

1) Query 1:

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
- 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.**

2) Query 2:

There is a clear mismatch in the BoQ for the HDPE Pipes, between the SDR and PN rating. Please note that this could have a very significant impact in the product technical specs offered and of course on the prices and commercial aspects of not only our offers to you. The mismatches are quoted hereunder:

- a. *Bill 3, Bill 6.1, Bill 6.3 there is mismatch between SDR No. and pressure rating, i.e. **SDR 11 is not PN10 but PN16.***

Response:

Refer to the response to Query 1, as above.

3) Query 3:

***PE 80** as a grade of material is not commercially manufactured anymore. All commercial HDPE pipe grade raw materials are the superior **PE100** material.*

Response:

Refer to the response to Query 1, as above.

4) Query 4:

Shall welding be allowed for big diameter steel pipes (DN600 and greater) and what are the specifications for the same.

Response:

As stated in Volume II, Section I, Part II, Particular Specifications, Section 2112.2 Welded Pipelines, all steel pipes and specials supplied under the Contract larger than DN600 shall be joined by field welding. The specifications are provided in the referenced section 2112.2.

As stated in Volume II, Section I, Part II, Particular Specifications, Section 2112.3 Pipelines with Flexible Couplings, steel pipes with flexible couplings are permitted from DN 65 to DN 600, outside chambers.

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 3 – RAW WATER RISING MAIN

The following ITEM is removed:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
3174	High Density Polyethylene Pipes (HDPE) SDR 11 (PN 10) for with Butt Fusion (seamless) Jointing OD 450 mm	m	900		

And replaced in entirety with the following:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
3174	High Density Polyethylene Pipes (HDPE) SDR 17 (PN 10) for with Butt Fusion (seamless) Jointing OD 450 mm	m	900		

All other parts of Bill 3 – Raw Water Rising Main do not change.

2. BILL 6.1 – Kiu Githurai Kimbo Ring Main

The following ITEMS are removed:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
6142	High Density Polyethylene Pipes (HDPE) SDR 11 (PN 10) for with Butt Fusion (seamless) Jointing OD 225	m	381		
6143.1	OD 355	m	2,135		
6143.2	OD 450	m	214		

And replaced in entirety with the following:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
6142	High Density Polyethylene Pipes (HDPE) SDR 17 (PN 10) for with Butt Fusion (seamless) Jointing OD 225	m	381		
6143.1	OD 355	m	2,135		
6143.2	OD 450	m	214		

All other parts of Bill 6.1 Kiu Githurai Kimbo Ring Main do not change.

3. BILL 6.2 – Mwiki Ring Main

The following ITEMS are removed:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
6173.1	High Density Polyethylene Pipes (HDPE) SDR 11 (PN 10) for with Butt Fusion (seamless) Jointing OD 450 mm	m	459		
6173.4	OD 355mm	m	1,578		

And replaced in entirety with the following:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
6173.1	High Density Polyethylene Pipes (HDPE) SDR 17 (PN 10) for with Butt Fusion (seamless) Jointing OD 450 mm	m	459		
6173.4	OD 355mm	m	1,578		

All other parts of Bill 6.2 Mwiki Ring Main do not change.

4. BILL 6.3 – Kahawa Wendani Ring Main

The following ITEMS are removed:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
6174	High Density Polyethylene Pipes (HDPE) SDR 11 (PN 10) for with Butt Fusion (seamless) Jointing OD 355mm	m	1,478		
6174	OD 450mm	m	1,255		

And replaced in entirety with the following:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
6174	High Density Polyethylene Pipes (HDPE) SDR 17 (PN 10) for with Butt Fusion (seamless) Jointing OD 355mm	m	1,478		
6174	OD 450mm	m	1,255		

All other parts of Bill 6.3 Kahawa Wendani Ring Main do not change.

5. BILL 9 – Consumer Connections

The following ITEMS are removed:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
	<u>HD-PE 80 SDR 11, PN 10</u>				
9I712.1	OD 20	m	32,000		
9I712.2	OD 25	m	13,000		
9I712.3	OD 32	m	20,800		
9I712.4	OD 40	m	13,000		
9I712.5	OD 50	m	2,600		
9I712.6	OD 63	m	2,600		

And replaced in entirety with the following:

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
	<u>HD-PE 80 SDR 11, PN 10 or HD-PE 100 SDR 17, PN 10</u>				
9I712.1	OD 20	m	32,000		
9I712.2	OD 25	m	13,000		
9I712.3	OD 32	m	20,800		
9I712.4	OD 40	m	13,000		
9I712.5	OD 50	m	2,600		
9I712.6	OD 63	m	2,600		

All other parts of Bill 9 Consumer Connections do not change.

Bidding Documents, Volume II, Section I, Part II, Particular Specifications

The following Sections are amended:

1. 2109. EXCAVATION OF PIPE TRENCHES

The following sentence, second paragraph, is removed:

For the purpose of measurement, the width of trench shall be taken as the nominated width for the particular size of the pipe, irrespective of the width of trench the Contractor may choose to excavate.

And replaced in entirety with the following:

For the purpose of measurement and payment, the width of trench shall be taken as a maximum as the nominated width for the particular size of the pipe, irrespective of if the Contractor excavates a wider trench. It may be accepted that a narrower trench is excavated, on the basis of approved method statements and calculations. In this case measurement and payment will be for the approved narrower trench width.

All other requirements of this clause do not change

2. 2121. FLOW MEASUREMENT, 2121.1. General

The following sentences, first and second paragraph, are removed:

Where flow meters are specified as requiring data loggers with GPRS transmission and antennae, the Contractor is responsible for supplying and installing all items, other than the SIM card itself, which will be provided by the Employer, who will also cover any contract or operating fees, apart from what is needed for testing.

In other cases, where no GPRS transmission is required, then all elements will be installed in the chambers underground. However, all meters will require provision for future GPRS transmission, so that this can be installed later, if required, so must be compatible with upgrading.

And replaced in entirety with the following:

All flow meters require data loggers with GPRS transmission and antennae, and the Contractor is responsible for supplying and installing all items, other than the SIM card itself, which will be provided by the Employer, who will also cover any contract or operating fees, apart from what is needed for testing.

All other requirements of this clause do not change

3. 2123. DATALOGGING AND TRANSMISSION

The following sentences are added to the end of the section:

The price for flow meters, data loggers and transmitters shall include all supplies, works and set up for fully functioning units, except for the cost of any SIM card or phone contract, which will be covered by the water utility.

If the Contractor demonstrates that in some cases it is not possible to install antennae in the chambers, due to poor network reception, then this must be agreed with the Engineer. If agreed, then antennae will be installed in a secure, wall mounted box in the vicinity of the flow meter and the Contractor will receive extra payment for this variation.

All other requirements of this clause do not change

4. 2408. CONSUMER CONNECTIONS

The entire section 2408. CONSUMER CONNECTIONS is completely removed and replaced in entirety with the following:

In the distribution system all existing Nairobi Water (NCWSC) consumers must be connected to the new water supply system, so that at the end of the project the old, existing system can be taken out of operation. and also any new consumers who have their application for a connection accepted by RUJWASCO by the cut off date will also have a connection constructed.

Consumer connections are not shown on the layout drawings, because the available lists of consumers are currently being cross-checked and validated on the ground. Hence only standard drawings are provided and the consumer connections are included in the BoQ.

The Contractor will be responsible for constructing the consumer connection as far as the border of the private property, where the Contractor must install a water meter chamber, including meter installation set. The connection pipe shall be temporarily sealed by the Contractor, until RUJWACO make the final connection to the consumer. Consumer connection lines must be pressure tested and disinfected by the Contractor, as per the main lines. All consumer connections will be metered. However, the water meters will be procured under a separate supply tender and will be installed by RUJWASCO. RUJWASCO will also complete the connection of the water meter box to the internal plumbing of the consumer, and thereby commission the connection. The contractor is responsible to obtain the information on the dimensions of the separately supplied water meters prior to ordering the water-meter chambers / installation sets!

As part of the Contractor's works programme, it must be shown on which streets the Contractor intends to work, and then this programme will need to be updated to match progress or any changes. The Contractor must notify the Engineer of when pipelines will be laid in each street, giving 3 months' notice, and then the Engineer will coordinate with RUJWASCO so as to provide the Contractor with the consumer connection concept for the respective street, within 2 months of the Contractor's notice, i.e. a minimum of 1 month before the Contractor implements the works. The consumer connection concept provided to the Contractor will show:

- The routing of consumer connection lines between main line and connection point to in-house installation of the building
- Water metering concept (with or without master meter)
- No of households in the building to be connected, or expected maximum consumption if not an apartment block.
- Site of metering chambers
- Point where to install pipe saddles or connections with Tee piece on the main line

Based on the consumer connection concept provided by the Engineer, the contractor shall prepare Construction / Shop drawings, for the planned house connection installations, which must then be approved the Engineer. These drawings shall include:

- Position of all installations (pipes, connection points to main distribution system pipe and in-house installations, water meter housing boxes, position of master meters (if any), valves, etc.)
- Diameter of consumer connection pipes (based on agreed dimensioning rules to supply the immediate demand).

The aim will be that all connections (new or replacement of existing) should be done by the Contractor at the time he is laying the new distribution line down the street, to cause the least disruption. However, the Contractor should include in his rates the additional costs for up to 10% of connections to be installed after the main line is completed, i.e. the Contractor has to return to do these connections on an ad-hoc basis, for no extra payment.

House connections will be taken over at the same time as the respective distribution system, as complete DMAs as a minimum, and only when there is a source available to pressurize the system so that RUJWASCO can immediately start commissioning the connections and operating the system, following taking over.

The next Clause 2408.1 does not change!