CONSTRUCTION OF CHEBANG’ANG WATER SUPPLY PROJECT IN BOMET COUNTY

TENDER NAME: PIPE LAYING AND INSTALLATION OF FITTINGS FOR CONVEYANCE PIPELINE FOR CHEBANGANG WATER SUPPLY PROJECT PHASE II IN BOMET COUNTY

TENDER NO. KRCS/PRF7925/2021

CLOSING DATE: 5TH MAY 2021
NOTES:
A. ALL DIMENSIONS ARE IN MILLIMETRES
B. PRECAST CONCRETE SHOUL
C. ALL PIPES REINFORCED CONCRETE
D. ALL PIPES RESIST CONCRETE
E. ALL PRECAST CONCRETE IS CLASSIFIED
F. ALL MATERIALS SEEN IN USE
G. PRECAST CONCRETE IS CAST IN
H. ALL SPECIFICATION LIMIT
I. ALL MATERIALS SEEN IN USE
J. ALL MATERIALS SEEN IN USE
K. ALL MATERIALS SEEN IN USE
L. ALL MATERIALS SEEN IN USE
M. ALL MATERIALS SEEN IN USE
N. ALL MATERIALS SEEN IN USE
O. ALL MATERIALS SEEN IN USE
P. ALL MATERIALS SEEN IN USE
Q. ALL MATERIALS SEEN IN USE
R. ALL MATERIALS SEEN IN USE
S. ALL MATERIALS SEEN IN USE
T. ALL MATERIALS SEEN IN USE
U. ALL MATERIALS SEEN IN USE
V. ALL MATERIALS SEEN IN USE
W. ALL MATERIALS SEEN IN USE
X. ALL MATERIALS SEEN IN USE
Y. ALL MATERIALS SEEN IN USE
Z. ALL MATERIALS SEEN IN USE

LEGEND:
FILE-FLUSHED GROUND LEVEL
F.C.-FLUSHED COUPLING
I.A.-FLUSHED ADAPTOR
T.F.-THRUH FLANGE

TABLE OF AIR VALVES AND FITTINGS

<table>
<thead>
<tr>
<th>SIZE</th>
<th>AIR VALVE</th>
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CONSULTANCY SERVICES FOR
S compétences des services de consultation
STANDARD DIMENSIONS
AIR VALVE DETAILS
BRISE 5 OF 11
NOTES

1. Anchor blocks constructed from untreated concrete Class C0.
2. Concrete cast against disturbed ground. White cement, the size anchor anchor sides shall be removed and filled with concrete before the pipe is firmly fixed. EPDM gaskets are not used.
3. Valve box shall be removed before the pipe is pressure tested.
4. Valve box shall be removed before the pipe is pressure tested.
5. Valve box shall be removed before the pipe is pressure tested.
6. Valve box shall be removed before the pipe is pressure tested.
7. Valve box shall be removed before the pipe is pressure tested.
8. Valve box shall be removed before the pipe is pressure tested.
9. Valve box shall be removed before the pipe is pressure tested.
10. Valve box shall be removed before the pipe is pressure tested.
J-10

NOTES

1. All dimensions are in mm unless otherwise stated.

2. Details for indicator posts to be as for gate valve but lettering to be as follows:
   - gate valve: GV
   - or valve: AV
   - washout: WD
   - fire hydrant: H
   - water main: WM
   - bulk meter: M
   - sluice valve: SV

3. All indicator posts except fire hydrant posts to be painted with 2 coats blue oil based paint and lettering to engineer’s approval.

4. Maker posts to be positioned in safe locations where possible against boundary of road reserve.

5. DRAWING TO SCALE IN A1 SIZE.

6. ONLY FIGURED DIMENSION TO BE TAKEN FROM THIS DRAWING.
NOTES
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED
2. ALL WELD REINFORCEMENT SHOULD CONFORM TO BS 4453
3. ALL FITTINGS TO BE DUCTILE IRON TO PN10 AND FLANGES TO BS 4504 PN10
4. STEEL IRRIG ARE ONLY REQUIRED WHERE CHAMBER IS GREATER THAN 1000MM DEEP
5. CHAMBER TO BE BACKFILLED WITH 300MM THICK GRANULAR FILL
6. ACCESS COVERS TO BE CAST IRON
7. PRECAST CONCRETE TO BE CLASS 30/10
8. DRAWING TO SCALE IN A1 SIZE
9. ONLY FIGURED DIMENSION TO BE TAKEN FROM THIS DRAWING
### Notes:

1. All dimensions are in millimeters.
2. Bottom of trenches should be well levelled and pieces of rock or stone rejected.
3. Unbraced or covered to the pipe to be uniform relatively soft for drain pipe approved by the engineer.
4. Backfill to be well compacted with layer of 150mm maximum thickness.
5. All pipes within vaults chambers are steel.

### Standard Support at River Crossings

![Diagram of Standard Support at River Crossings]

### Culvert Crossing for Pipe - Section

![Diagram of Culvert Crossing for Pipe - Section]

### Road Crossing

![Diagram of Road Crossing]

### Railway Crossing - Section

![Diagram of Railway Crossing - Section]

### Stream Crossing - 6m (Steel Pipe)

![Diagram of Stream Crossing - 6m (Steel Pipe)]

### Stream Crossing - 12m (Steel Pipes)

![Diagram of Stream Crossing - 12m (Steel Pipes)]

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### Table: Design Consultancy Services

<table>
<thead>
<tr>
<th>Service</th>
<th>Description</th>
<th>Design</th>
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<th>Estimation</th>
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<tr>
<td>Consultancy Services</td>
<td>Survey, Detailed Design and CDA Study, Preparation of Tender Documents and Construction Supervision for Crossing and Water Supply Project</td>
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### Standard Barriers

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