



REPUBLIC OF KENYA



COUNTY GOVERNMENT OF NYANDARUA

DEPARTMENT OF PUBLIC WORKS, ROADS, TRANSPORT, HOUSING &
ENERGY

PROPOSED DEVELOPMENT OF DRAINAGE IN ENGINEER TOWN-ENGINEER
WARD

FOR

DEPARTMENT OF LANDS, PHYSICAL PLANNING AND URBAN
DEVELOPMENT (ENGINEER MUNICIPALITY)

BILLS OF QUANTITIES

ARCHITECT,
COUNTY ARCHITECT,
DIR. OF PUBLIC WORKS,
NYANDARUA COUNTY,
P.O. BOX 701-20303,
OL KALOU

QUANTITY SURVEYOR,
COUNTY QUANTITY SURVEYOR,
DIR. OF PUBLIC WORKS,
NYANDARUA COUNTY,
P.O. BOX 701-20303,
OL KALOU

ELEC/MECH ENGINEER
COUNTY ELEC / MECH. ENGINEER,
DIR. OF PUBLIC WORKS,
NYANDARUA COUNTY,
P.O. BOX 701-20303,
OL KALOU

STRUCTURAL ENGINEER,
COUNTY ENGINEER - STRUCTURAL
DIR. OF PUBLIC WORKS,
NYANDARUA COUNTY,
P.O. BOX 701-20303,
OL KALOU

SEPTEMBER, 2024

PROPOSED DEVELOPMENT OF DRAINAGE IN ENGINEER TOWN-ENGINEER
WARD

BILL NO.1 - DRAINAGE WORKS

Item	Description of Works	Unit	Qty	Rate	Amount (Kshs)
<u>ELEMENT NO. 01 - ALL ITEMS</u>					
A	Excavate to form open drain width 1050mm width by 850mm high) with sides set sloping, level and compact bottoms to receive base concrete.	CM	267		
B	Cart away excavated materials and spread on site around the drains as directed	CM	267		
C	200mm thick (1:3:6) mass concrete in trench bases well compacted	SM	180		
D	Construct 150mm thick thick natural stone side walls (set sloping) jointed in (1:3) cement sand mortar and not exceeding 1000mm high as directed by the Engineer.	SM	510		
E	B.R.C. Mesh type A65; Ø4mm; 180x180mm openings; 1.11kg/m ²	SM	315		
F	200mm thick precast cover slab with fair faced finish ;in sections	SM	71		
G	allow for Unclogging of the drainage system as directed by the project manager	ITEM	1		
H	Install a grate along the drainage at the interval as directed by the Project manager	NO	3		
	Element 01				
	DRAINAGE	CARRIED TO SUMMARY		KSHS	

PROPOSED DEVELOPMENT OF DRAINAGE IN ENGINEER TOWN-ENGINEER
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BILL NO.2 - CULVERTS & HEADWALLS

Item	Description of Works	Unit	Qty	Rate	Amount (Kshs)
	<u>ELEMENT NO. 01 - ALL ITEMS</u>				
	Demolish				
	Demolish Existing pipe culverts (450mm dia) and dispose	LM	18		
	<u>Excavation</u>				
A	Excavate trench for 600mm diameter culvert, apron and wing-walls to detail (50) 5318 starting from ground level to a depth not exceeding 1.25m	CM	42		
	<u>Blinding concrete (1:4:8) in:</u>				
B	50mm thick blinding to bottoms of excavation	SM	48		
	<u>Vibrated concrete Class 20/20 (1:2:4) including all necessary formwork in:</u>				
C	Concrete surround and bedding	CM	24		
D	Aprons	CM	5		
E	Headwalls and wingwalls	CM	5		
	<u>Fabric Mesh Reinforcement to B. S. 4483:2005</u>				
F	B.R.C. Mesh type A65; Ø4mm; 180x180mm openings; 1.11kg/m ²	SM	88		
	<u>Pre-cast concrete pipes</u>				
G	Provide, lay and joint 600mm diameter pre-cast concrete pipes on concrete bedding to correct falls	LM	35		
	<u>Filling and carting away</u>				
H	Return, fill and ram with approved granular material around installed culverts	CM	20		
	Element 01				
	CULVERTS & HEADWAL CARRIED TO SUMMARY			KSHS	

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BILL NO. 3 - PROVISIONAL SUMS

Item	Description of Works	Unit	Qty	Rate	Amount (Kshs)
A	<p><u>ELEMENT NO. 01 - ALL ELEMENTS</u></p> <p><u>The following provisional sums are to be measured on completion and priced in accordance with the rates contained in these bills of quantities or prorata thereto or deducted in whole if not required</u></p> <p>Allow a Provisional Sum of Kenya Shillings Thirty Thousand (Kshs. 30,000.00) only for Project Supervisory Expenses to be deducted in whole or in part as directed by the Project Manager</p> <p>Element 01</p>		ITEM		30,000
	PROVISIONAL SUMS		CARRIED TO SUMMARY	KSHS	30,000

PROPOSED DEVELOPMENT OF DRAINAGE IN ENGINEER TOWN-ENGINEER WARD

GRAND SUMMARY

ITEM	DESCRIPTION	Page No.	FOR OFFICIAL USE ONLY KSHS.	FOR TENDERER USE ONLY KSHS.
A	Drainage Works	DW/1		
B	Culverts	CW/1		
C	Provisional Sums	PS/1		30,000.00
	SUB-TOTAL			
	ADD 1% PROJECT MANAGEMENT PAYABLE TO COUNTY REVENUE ACCOUNT			
TOTAL CARRIED TO FORM OF TENDER INCLUSIVE OF 16% V.A.T.				

Amount in words. Kenya shillings

.....

.....Cents

Tenderer's Signature and stamp.....

Address

.....

Date

Witness Signature

Address

.....

Date