



REPUBLIC OF KENYA



## COUNTY GOVERNMENT OF NYANDARUA

DEPARTMENT OF PUBLIC WORKS, ROADS, TRANSPORT, HOUSING AND

PROPOSED DEVELOPMENT OF DRAINAGE SYSTEMS IN OLKALOU

FOR

DEPARTMENT OF LANDS, PHYSICAL PLANNING AND URBAN  
DEVELOPMENT

# 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

AUGUST, 2024

DRAINAGE WORKS-RURII, KAIMBAGA (CAPTAIN) AND KANJUURI (TUMAINI)

Item	Description of Works	Unit	Qty	Rate	Amount (Kshs)
A	<p><u>ELEMENT NO. 01 - PRELIMINARIES</u></p> <p>The Contractor is to allow for all Preliminaries including site offices and stores, transport of workmen to and from site, transport of materials, supply, setting out, servicing, fueling of the plant and equipment, provision of plant operator, insurance for the works shall be the sole responsibility of the contractor and all other preliminaries incidental to these works</p> <p>Allow for all Preliminaries associated with the works</p>	Item	1		
	<p>Element 01</p> <p>PRELIMINARIES</p>			KSHS	CARRIED TO SUMMARY

PROPOSED DEVELOPMENT OF DRAINAGE SYSTEMS IN OLKALOU

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 (1000mm high) with sides set sloping, level and compact bottoms to receive base concrete.	CM	116		
B	Cart away excavated materials and spread on site around the drains as directed	CM	116		
C	200mm thick (1:3:6) mass concrete in trench bases well compacted	SM	116		
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	200		
E	Construct concrete scouring checks in accordance to specifications and as directed by the site Engineer	NO	5		
	Element 01				
	DRAINAGE			CARRIED TO SUMMA	KSHS

PROPOSED DEVELOPMENT OF DRAINAGE SYSTEMS IN OLKALOU

BILL NO. 2 - Concrete Works

Item	Description of Works	Unit	Qty	Rate	Amount (Kshs)
	<u>ELEMENT NO. 01 - ALL ELEMENTS</u>				
	<u>Earthworks</u>				
A	Excavate oversite to remove vegetable soil, average 150mm deep and cart away as directed	SM	330		
B	Excavate to formation level n.e. 1.0m; average depth 0.3m	CM	100		
C	Scarify, water, spread and compact to correct cross falls the top 200mm of the sub grade	SM	330		
D	Load and cart away extra excavated material from site to approved County Government dump site	CM	100		
	<u>Fillings</u>				
E	Provide, lay and compact 150mm thick approved granular material for sub base to 98% M.D.D. specifications. (AASHTO T180)	CM	50		
G	Provide, lay and compact 150mm thick approved hand packed stone for base to 98% M.D.D. specifications (AASHTO T180)	CM	50		
	<u>Pre-cast concrete drain covers laid in accordance to the manufacturer's instructions</u>				
H	Provide and install 600X600mm by 75mm thick C20/20 precast reinforced concrete drain covers haunched with 20/20 mass concrete. laying pattern, source and shape of the blocks to be as approved by the Engineer.	No	390		
I	Provide and cast 100mm C20/20 vibrated mass concrete on compacted base ensuring a 2.5% slope to ensure proper drainage of surface runoff with expansion joints as will be directed by the engineer on site.	CM	35		
J	supply, excavate for and erect 75mm diameter by 3mm thick CHS bollards at 2.5m c/c haunched in C15/20 mass concrete with a height of 600mm above ground level, 300mm embedded in concrete and stoppped at the top to avoid damage by water i.	No	108		
K	<u>Prepare and apply one coat etching primer, one undercoat and white and/or black paint to bollards as will be instructed on site.</u>	LM	16		
	Element 01				
	Element 01				
	<b>CARRIED TO SUMMARY</b>			<b>KSHS</b>	

PROPOSED DEVELOPMENT OF DRAINAGE SYSTEMS IN OLKALOU

BILL NO. 5 - PROVISIONAL SUMS

Item	Description of Works	Unit	Qty	Rate	Amount (Kshs)
B	<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 SixtyThousand (Kshs. 60,000.00) only for Project Supervisory Expenses to be deducted in whole or in part as directed by the Project Manager</p>		ITEM		
	Element 01				
	PROVISIONAL SUMS		CARRIED TO SUMMARY	KSHS	

PROPOSED DEVELOPMENT OF DRAINAGE SYSTEMS IN OLKALOU

GRAND SUMMARY

ITEM	DESCRIPTION	Page No.	FOR OFFICIAL USE ONLY	FOR TENDERER USE ONLY
			KSHS.	KSHS.
A	Drainage Works	DW/1		
B	Concrete Works	PW/2		
C	Provisional Sums	PS/1		
	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 .....