

NAROK COUNTY GOVERNMENT

DEPARTMENT OF ROADS

PROPOSED CONSTRUCTION OF SANDRIVER-OLTULELEI BRIDGE

BILLS OF QUANTITIES

DATE: 9TH SEPTEMBER 2024

BILL NO. 1. PRELIMINARIES AND GENERAL ITEMS

ITEM	I. PRELIMINARIES AND GENERAL ITEMS DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1.02	Provide or rent and maintain Engineer's Representative's office as shown on the drawings or as instructed by the Engineer for use during the duration of the Contract, ownership to revert to the Contractor at the end of the Contract	LS	1.00	1,000,000.00	1,000,000.00
1.03					
	Provide Laptop PC 13th Gen Intel Core i913900H 16" screen, 16GB RAM 1TB SSD 8GB NVIDIA GeForce RTX 4060 GPU approved with Microsoft Windows professional, for use during the duration of the Contract.				
		NO	2.00		
1.04	Provide oa Lump Sum for Material Testing	LS	1.00	500,000.00	500,000.00
1.13	Allow a Prime Cost Sum of Kshs. 500,000 for the RE's miscellaneous account to be spent in whole or part as directed by the RE against receipts.	PC Sum	1.00	500,000.00	500,000.00
1.14	E.O. item 1.13 for Contractor's overheads and profits.	%	1.00		
1.15	Allow a Prime Cost Sum of Kshs. 300,000 for attendance upon the				
	Resident Engineer' staff.	PC Sum	1.00	300,000.00	300,000.00
1.16	E.O. item 1.15 for Contractor's overheads and profits.	%			
1.17	Provide, erect and maintain publicity signs as directed by the Engineer.	N.	2.00		
1.18		No	2.00		
	Allow a Prime Cost Sum of Kshs. 200,000.00 for relocation of services as instructed or directed by the Engineer.	PC Sum	1.00	200,000.00	200,000.00
1.19	E.O. item 1.18 for Contractor's overheads and profits.	Item	1.00		
	DSUNG 1 Total Comind Former 1 to Comind Supplies				
	Bill No. 1 Total Carried Forward to Grand Summary				

BILL NO. 4: SITE CLEARANCE AND TOP SOIL STRIPPING

	: SITE CLEARANCE AND TOP SOIL STRIPPING DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Note: No separate payments shall be made for gravel for blinding or hauling to spoil unsuitable excavation materials and the cost of such shall be included in the rates and prices Clear site on road reserve including removal of all growths, bushes, hedges, trees, stumps, grub up roots, and other deleterious				
4.01	materials and back-fill and compact to 100% MDD(AASHTO T99) with approved material as directed by the Engineer.	SUM	1.00		
4.02	Strip top soil upto 0.2m in thickness along alignment or material sites including removal of all grass and other vegetation,transport to spoil and spread or stock pile for re-use as directed by the Engineer.	SOM	1.00		
4.03	Provide Provisional Sum of KShs. 200,000 for the removal of structures and obstructions to be paid on dayworks basis	m3 Prov. Sum	1,500.00 1.00		

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PROPOSED CONSTRUCTION OF SANDRIVER-OLTULELEI BRIDGE CONTRACT NO: NCG $\,$

 ${\bf BILL\ NO.\ 7: EXCAVATION\ AND\ FILLING\ OF\ STRUCTURES}$

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Note: No separate payments shall be made for gravel for blinding or hauling to spoil unsuitable excavation materials and the cost of such shall be included in the rates and prices				
7.01	Excavate to spoil in soft materials.	m3	1,324.00		
7.02	As item 7.01 but in hard material.	m3	285.00		
7.03	Provide,place and compact rockfill below and around strucures.	m3	235.00		
7.04	Provide and place 150mm thick stone pitching as directed by the Engineer including cement grouting	m2	745.00		
7.05	Excavate for gabions in soft material.	m3	800.00		
7.06	Provide and place gabion boxes and matresses where directed by the Engineer.	m2	134.00		
7.07	Rockfill to gabions.	m3	78.00		
7.08	Filter fabric behind gabion boxes.	m2	65.00		
7.09	Provide and backfill approved material around new structures, compact 100% MDD (AASHTO T99) in layers not exceeding 150mm.	m 3	765.00		
7.10	Allow for protection of structures pursuant to Section 708 of the specifications	LS	1.00		
	PHN 4 Trad Control Form 11 C 12				
	Bill No. 7 Total Carried Forward to Grand Summary				

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PROPOSED CONSTRUCTION OF SANDRIVER-OLTULELEI BRIDGE CONTRACT NO: NCG

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BRIDGES AND BOX CULVERTS				
	Concrete				
17.01	Provide, place and compact Class 20(20) concrete blinding as instructed by the Engineer	m3	375.00		
17.02					
	Provide, place and compact concrete class 25(20) to aprons, wingwalls, abutments and piers, walls and slabs for the Box culverts and bridges as shown in drawings.				
		m3	864.00		
17.03		m3	1,734.00		
	Provide, place and compact concrete class 30(20) to main beams, cross-beams ,deck and approach slabs as shown in drawings.				
	Reinforcement: Provide, cut, bend & fix into position steel reinforcement as shown in the drawings or as instructed				
	by the Engineer				
17.04	High yield reinforcement steel bars to BS 4461 equal to or less than 16mm diameter bar size	kg	53,672.00		
17.05	High yield bond strength reinforcement steel to BS 4461 greater than 16mm diameter bar size	kg	34,987.00		
	Formwork: Provide, erect and afterwards dismantle and				
	remove all the formwork as specified by the Engineer				
17.16	Provide & fix in place vertical formwork to achieve class F1 finish	m2	1,200.00		
17.17	Vertical formwork to achieve class F3 finish	m2	1,876.00		
	Bill No. 17 Total Carried Forward to Grand Summary		ı		

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TEM 20.01	DESCRIPTION Provide and erect concrete posts for guardrails complete with spacers	UNIT No.	QTY 78	RATE	AMOUNT
20.01	(size and interval) as per specifications or as directed by the Engineer	100.	/8		
	Described and Grade and Gr				
	Provide and erect flex-beam guardrails complete with connections as shown on the drawings or as directed by the Engineer	m	240		
20.02					
	Bill No. 20 Total Carried Forward to Grand Summary	· <u></u>			

BILL NO. 21: MISCELLANEOUS BRIDGE WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
21.03	Form 75-100 mm weepholes sloped to suit in abutments and and structural walls of structures	No	80		
21.04	Form holes 75-100mm dia in deck slab and insert heavy duty PVC 100mm diameter 600mm long, top sealed with perforated steel grating	No	74		
21.05	Provide and install elastomeric bearings LEB IRHD size 500 x 450 x100 mm thick,	No	18		
21.07	Providing and placing bitumen emulsion or cutback bitumen or bitumen/rubber latex emulsion to all structural concrete in contact with fill material or cut soil.				
21.15		m2	165		
21.16	Provide and place into position handrails along the edge of the carriageway as per drawings and as instructed by the Engineer.	m	140		
21110	Provide and place into position galvanised flexi-beam guardrails including end pieces,nuts and bolts along the approaches to the bridges as per drawings and as instructed by the Engineer	m	140		
21.17	Provide and place a 0.5m wide drainage layer of class 20/20 mm to structural concrete in contact with fill material.	m3	34		
	Bill No. 21 Total Carried Forward to Grand Summary				

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BILL NO. 25: ENVIRONMENTAL MITIGATION MEASURES & HIV AIDS CAMPAIGN

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
25.01	All for a prime cost sum for of KShs 200,000 for ESIA study and report, Compliance Audits and environmental monitoring.	PC sum	1	200,000.00	200,000.0
25.02	E.O for Item 25.01 for Contractor's Oveheads and Profit				
25.03	Allow for engagement of a HIV/AIDS specialist subcontractor to deal with prevention, awareness activities as per programme to be approved by the Engineer	Item Months	6	200,000.00	1,200,000.0
25.04	Allow for the availability of male and female condoms to workers and staff strategically and socially presented for the duration of the contract	Months	6	5,000.00	30,000.0
	Bill No. 25 Total Carried Forward to Grand Summar	y			

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GRAND SUMMARY OF BILL OF QUANTITIES

LL ITEM	DESCRIPTION	AMOUNT(KShs)
1	Preliminaries and General Items	
4	Site Clearance and Top Soil Stripping	
7	Excavation and Filling of Structures	
17	Concrete Works	
20	Road Furniture	
21	Miscellaneous Bridge works	
25	HIV/AIDS, Gender & Social Issues, Local Participation	
(A)	SUB-TOTAL (1)	
(B)	Add 0% VARIATION OF PRICE of sub total (1)	
(C)	Add 2.5% CONTIGENCIES of sub total (1)	
	SUB-TOTAL $(2) = (A + B + C)$	
(D)		1
(D) (E)	Add16% VAT of sub-total (2)	

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