



**MINISTRY OF AGRICULTURE AND LIVESTOCK DEVELOPMENT  
STATE DEPARTMENT FOR AGRICULTURE**

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**Ref: No.: MOALD/ENG/CDS/004/VOL.I**

**Date: 7<sup>th</sup> June, 2025**

**ADDENDUM 4**

**DEVELOPMENT OF AGRICULTURE TECHNOLOGY INNOVATION CENTRES (DATIC)**

**TO: All Interested Bidders**

**SUBJECT: REVISED BILL OF QUANTITIES FOR CONSTRUCTION OF BULLA CADEY  
IRRIGATION SCHEME PHASE 1 IN GARISSA TOWN CONSTITUENCY,  
GARISSA COUNTY FOR TENDER No: MOALD/SDA/ENG/DATIC/48/2024-25**

<b>GRAND SUMMARY FOR CONSTRUCTION OF BULLA CADEY IRRIGATION SCHEME PHASE 1 IN GARISSA TOWN CONSTITUENCY, GARISSA COUNTY</b>		
<b>BILL No.</b>	<b>DESCRIPTION</b>	<b>CONTRACT AMOUNT (KES)</b>
Bill No. 1	Preliminary And General Items	
Bill No. 2	Pipeline Works, Drainage and Earth Canal	
Bill No. 3	Construction Of Sluice Valve Chambers	
Bill No. 4	Stilling Basin Construction	
<b>SUB-TOTAL 1</b>		
<b>ADD 10% CONTINGENCIES</b>		
<b>SUB-TOTAL 2</b>		
<b>ADD 16% VAT</b>		
<b>TOTAL</b>		

	<b>Bill No. 1 - Preliminaries</b>				
<b>Item</b>	<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate (Kes)</b>	<b>Amount (Kes)</b>
<b>1.1</b>	<b>Contractual Requirements</b>				
1.1.1	Allow for establishment, mobilization and demobilization of the contractor's camp together with all the required equipment.	LS	1		
1.1.2	Insurance of the Works, Plant and Materials against loss or damage.	LS	1	220,000	220,000
1.1.3	Insurance of Contractor's Equipment against loss or damage.	LS	1	220,000	220,000
1.1.4	Third party insurance	LS	1	110,000	110,000
<b>1.2</b>	<b>Stamp Charges</b>				
	The contractor shall allow for the payment of all stamp charges in connection with the contract agreement	LS	1	500,000	500,000
<b>1.3</b>	<b>Samples</b>				
	The contractor shall make arrangement for Laboratory testing as and when required for quality control and make available for independent testing of works sample by the Resident Engineer. The Contractor may be required to witness the testing.	LS	1	250,000	250,000
<b>1.4</b>	<b>Temporary works, offices, and sheds</b>				
	The contractor shall erect or hire and maintain temporary office accommodation for his use and ample temporary water tight sheds for the proper storage of materials and for use of artisans including removal when ordered. Floors, sheds shall be at least 150mm above ground level.	LS	1	500,000	500,000
<b>1.5</b>	<b>Sanitation</b>				
	The contractor shall provide the necessary latrine for staff and workmen to the requirements and satisfaction of the health authorities and maintain the same in a thorough clean and sanitary condition and pay all conservancy fees during the period of the works and remove when no longer required.	LS	1	200,000	200,000
<b>1.6</b>	<b>Existing and adjacent property</b>				
	The contractor must take all steps necessary to safeguard existing and adjacent property, make good at his own expenses any injury or damage to persons or property cased thereon and hold the	LS	1	150,000	150,000

	employer indemnified against any such claim arising.				
<b>1.7</b>	<b>Security</b>				
	The contractor must take all precautions necessary for the safe custody of the works, material, and public and employers' property on site.	LS	1	150,000	150,000
<b>1.8</b>	<b>Protection and cleaning</b>				
	The contractor shall cover up and protect from damage including damage from inclement weather, all finished works and unfixed material including that of subcontractor etc, to the satisfaction of the engineer until the completion of the contract. Careful preserve all trees and bushes on or near the site. The contractor upon completion of the works shall, at his own expense, remove and clear away all surplus excavated material, plants, rubbish, and unused material and shall leave the site and works in a tidy state to the satisfaction of the engineer, including clearing away and making good all traces of temporary access roads, sheds, camps etc.	LS	1	250,000	250,000
<b>1.9</b>	<b>Concrete Strength Tests</b>				
1.9. 1	Provisional Sum for additional concrete tests, as directed by the Resident Engineer	Prov. Sum	1	250,000	250,000
1.9. 2	Contractor's mark-up for profit and overheads in respect to Item 1.10.1	%			
<b>1.1 0</b>	<b>Site meetings</b>				
1.10 .1	Allow for provisional sum for monthly site management meeting expenses for the whole duration of the contract.	Provisio nal sum	1	2,000,000	2,000,000
1.10 .2	Contractor's mark-up for profit and overheads in respect to Items 1.11.1	%			
<b>1.1 1</b>	<b>Signboards</b>				
1.11 .1	Provision, erection and maintenance of project signboards as directed by project manager	No.	3		
<b>1.1 2</b>	<b>Pre-handing over activities</b>				
1.12 .1	Operate completed project for 14 days prior to handing over including all costs	Days	14	15,000	210,000

<b>1.1 4</b>	<b>Support to Project Manager's Office</b>				
1.14 .1	Provisional Sum of KES five million to cover supervision costs by the Project Manager's office to cover expenses for Clerks of Works, communications, transport, allowances, etc to be expended as directed by the Project Manager.	LS	1	500,000	500,000
1.14 .2	Provisional sum of KES three million to cover design reviews	LS	1	1,500,000	1,500,000
1.14 .3	Provisional sum of KES three million to cover for accessibility to the site	LS	1	1,000,000	1,000,000
1.14 .4	Provisional sum of KES three million to cover strengthening of Project Management Committee	LS	1	1,000,000	1,000,000
1.14 .5	Provisional sum of KES four hundred thousand to cover for Environmental impact assessment	LS	1	400,000	400,000
1.14 .6	Contractor's Overheads and Profit for item 1.14 above.	%			
	<b>TOTAL BILL CARRIED OVER TO GRAND SUMMARY</b>				
	<b>BILL NO 2- MAIN PIPELINE WORK &amp; EXCAVATION OF DRAINAGE AND EARTH CANALS</b>				
<b>2.0</b>	<b>Pipeline Works</b>				
2.1	Purchase, supply & installation of 6" HDPE pipe PN12.5 pipeline	m	4,500		
2.2	installation of JOINTS AT 6M INTERVALS	no	750		
2.3	Purchase, supply & installation of 90° bends of 6"	no	72		
2.4	Purchase, supply & installation of 6" valves sockets	no	36		
2.5	Purchase and installation of 6 "PVC TEES CLASS C	pcs	72		
2.6	Purchase, supply & installation of 6" sluice valves	no	36		
2.7	Excavate and backfill for DN 150mm HDPE pipes for depth not exceeding 0.5m	m3	1,200		
2.8	Purchase and installation of 6" hydrant along the pipeline	no	4		
2.9	purchase of 500m flexible pipes 6" diameter	no	2		
2.10	Excavation of drains	m3	2,700		
2.11	construction of earth canals	m3	1,000		
	Total carried to summary				
	<b>BILL NO3 CONSTRUCTION OF 36 SLUICE VALVE CHAMBERS</b>				

	<b>Construction of sluice valve chambers - 36 No.s</b>				
	Supply blocks and mortar for SVC walling (Mortar for blockwork and plaster mix ratio 1:3 Internal plastering and external rendering - wall plastering and rendering with a 10 mm thick (1 part cement to 3 parts sand) plaster to 150 mm below ground level for 36 SVC as per the engineering design provided.				
3.1	Site clearance and excavate for SVC	m <sup>3</sup>	36.00		
3.2	Foundation - Hardcore	Tons	36.00		
3.3	Reinforced concrete slab (C20/20)	m <sup>3</sup>	12.00		
3.4	Blocks (9" x 9" x 18")	No.	1,560		
3.5	Cement	Bags	108		
3.6	Sand	Tons	213		
3.7	Ballast	Tons	57		
3.8	fabricate and install Metal cover (50mm thickness) with padlock locker	No.	36		
3.9	BILL 3TOTAL CARRIED TO SUMARY				
	<b>SUBTOTALS FOR BILL NO 3 CARRIED TO SUMMARY</b>				
4	<b><u>CONSTRUCTION OF 36NO. STILLING BASINS (DIMENSIONS: 1500mm by 1500mm by 1.7m deep)</u></b>				
	Supply blocks and mortar for basin walling (Mortar for blockwork and plaster mix ratio 1:3 Internal plastering and external rendering - wall plastering and rendering with a 10 mm thick (1 part cement to 3 parts sand) plaster to 150 mm below ground level for 36 stilling basins as per the engineering design provided.				
4.1	Site clearance, excavation and surface trimming and spoiling the excavated material as directed by the Engineer for stilling basin	m <sup>2</sup>	144.00		
4.2	Foundation - Hardcore	m <sup>3</sup>	48.00		
4.3	Reinforced concrete slab (C20/20). The reinforcement is D10 spaced at 200mm c/c. This to include the top and bottom slab.	m <sup>3</sup>	27.00		
4.4	Formwork for the sides and soffit to the top slab for the chambers	m <sup>2</sup>	102		
4.5	Masonry work. Complete with internal and external plastering using recommended Blocks (9" x 9" x 18"), jointing with mortar or as instructed by the engineer	m <sup>2</sup>	276		
4.6	Backfilling round the sides of the chambers with selected material as directed by the engineer	m <sup>3</sup>	27.00		

4.7	Provide and use Waterproof cement for the concrete works	Kg	342		
4.8	Supply, fabricate and install Sliding metal gates Frame (0.4m x 0.70m) or as directed by the site engineer.	No	108		
	<b>SUBTOTALS FOR BILL ITEM NO.4 CARRIED TO SUMMARY</b>				

**PRINCIPAL SECRETARY  
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