

## **ADDENDUM NO.1**

During the site visit held on 21/02/2024 with prospective bidders, a number of issues were raised and we would clarify as below;

### **Yogot water Distribution: Tender No. KVDA/T/28/2023-2024**

The bill of quantities for Kipsoen and Kiptingo site which is missing in the tender document is hereby corrected and attached.

### **Proposed extension of Lomut main pipeline in West Pokot County - Tender No. KVDA/T/25/2023-2024**

The quantities under item 4.1.1 is reviewed from 10,125m<sup>3</sup> to 6,500m<sup>3</sup>

Item 4.4 is reviewed to HDPE pipe work not UPVC pipework.

Item 4.4.1 to read; Supply, excavate, lay and test PN12 HDPE class C not PN 10.5 HDPE

### **Water pans and dams**

In the mandatory requirements of the following tenders;

1. Proposed extension of Lomut main pipe- line in West Pokot County–  
Tender No. KVDA/T/25/2023-2024
2. Construction of Lotongot water pan in Sigor, West Pokot County -  
Tender No. KVDA/T/23/2023-2024
3. Construction of Chemugul water pan in Elgeyo Marakwet County -  
Tender No. KVDA/T/22/2023-2024.
4. Construction of Kabuswo dam in Elgeyo Marakwet County - Tender No.  
KVDA/T/24/2023-2024.

We had instructed bidders to attach EPRA solar Certificates for the above four listed tenders. This is not necessary since there are no solar

installations in the projects. Hence it is Not a Mandatory requirement in the evaluation criteria.

### **Tender Submission method.**

Tender documents to be deposited at the Tender box located at 13<sup>th</sup> floor, KVDA Plaza Eldoret on or before Thursday, 29<sup>th</sup> February 2024 at 10.00am.

**NB: Electronic tenders will NOT be accepted contrary to what is indicated in the PPIP Portal.**

LOWER YOGOT DAM WATER DISTRIBUTION SYSTEM: ELGEYO MARAKET COUNTY					
PRELIMINARY AND GENERAL ITEMS					
ITEM	ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUNT
No.				(Kshs)	(Kshs)
<b>1</b>	<b><i>Contractual requirements</i></b>				
<b>1.1</b>	Provision of Insurance of Works in accordance with the general Conditions of Contract.	Sum	1	300,000	300,000
<b>1.2</b>	<b><i>Temporary works</i></b>				
<b>1.2.1</b>	Provide 1 No. rented Office Building for project managers and Engineer's staff	P sum	1	250,000	250,000
<b>1.2.2</b>	Maintenance of office for the project manager and engineers staff including tea, electricity, water, cleaning, security etc.	months	2	100,000	200,000
<b>1.2.3</b>	Allow for on-the-job training and capacity building for the locals regarding maintenance in all aspects of operation and maintenance of the water supply system	sum	200,000	200,000	200,000
<b>1.2.4</b>	Allow for provisional sum to cover costs of site meetings and related costs	p.sum	1	200,000	200,000
<b>1.3</b>	<b><i>Testing of Materials</i></b>				
<b>1.3.1</b>	Testing of materials and system as instructed by the Engineer	sum	1	60,000.00	60,000.00
<b>1.4</b>	<b><i>Other Provisional Sums</i></b>				

<b>1.4.1</b>	Provide prime cost for supervision to be expended as directed by the Engineer to include airtime, progress report and photographs	Sum	1	500,000.00	500,000.00
<b>1.4.2</b>	Allow provision sum for as built drawing	Sum	1	40,000.00	40,000.00
<b>1.4.3</b>	Allow for confirmatory survey by the Engineer and the Contractor	Sum	1	150,000.00	150,000.00
<b>1.4.4</b>	Percentage adjustment to provisional sum in Items 1.4.1,1.4.2 &1.4.3	%	15%	690,000.00	103,500.00
	<b>BILLS ;TOTAL TAKEN TO GRAND SUMMARY</b>				<b>2,003,500.00</b>

<b>LOWER YOGOT WATER DISTRIBUTION SYSTEM;ELGEYO MARAKWET COUNTY</b>					
	<b>SITE 1:KIPTINGO TANK CONSTRUCTION AND DISTRIBUTION NETWORK</b>				
	<b>BILL NO 1: SOLAR PUMPING SYSTEM</b>				
<b>ITEM No</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE (Kshs)</b>	<b>AMOUNT (Kshs)</b>
<b>1</b>	<b>SOLAR PUMPING SYSTEM</b>				
	<i>Provide, handle, install and test the following solar driven submersible pump, solar panels and all fittings and pipe specials. Rates shall include for completing all connections as per specifications /drawings</i>				
1.1	11KW PUMP END OR Approved submersible pump capable of pumping 35m <sup>3</sup> /hr against a total head of 100M	No	1		
1.1.1	Varuna 11KW sub-motor or approved Equivalent.(water cooled)	No	1		
1.1.2	10mm <sup>2</sup> x 4 core flat submersible cable	m	30		
1.1.3	Boreholecobver 3" C/W sundries	No	1		
1.1.4	3" Adaptor set	No	1		
1.1.5	3" GI Bend	No	1		

1.1.6	Construction of a sump or a Floating mechanism pump cage;The pump cage will be made of from GI tubes fabricted and welded to hold the pump in position for easy pumping under floating plastic drums.	Sum	1		
1.1.7	Day liff sunverter 15Kw or approved Equivalent.	No	1		
1.1.8	PV 8 WAY combine box ,breaker 1000V/40A c/w surge protector constituents; 8way solar distribution box,circuit breaker63,40A,4P,1000VDC,polarity,DC surge protector,SUP2H1-PV,3P1000VDC,20-40KA and MC4 connectors 6mm2,1000VDC	No	1		
1.1.9	Controller Enclosure-600mm by 750 mm	No	2		
1.1.10	545W 24VDC solar monocrstalline modules	No	32		
1.1.11	3" Non return valve flap crane	No	2		
1.1.12	Cooling sleeve 6"	No	1		
1.1.13	Lightning arrestor -copper 3ft	No	3		
1.1.14	Solar PV cable 6mm <sup>2</sup> UG Cable,1000vdc - red/black	m	160		
1.1.15	10mm2 single core cable	m	60		
1.1.16	Earth rod copper -3 ft c/w clamp	No	3		
1.1.17	10mm2 4 core submersible cable-msl	L	30		
1.1.18	6mm <sup>2</sup> Twin Flat Cable with Earth	m	60		
1.1.19	10mm2 4 Core Armoured cable	L	100		
1.1.20	Earth Rod c/w Clamp	No	3		
1.1.21	6mm <sup>2</sup> Earth Cable	m	25		
1.1.22	Fabricate and install Module support structure 4m High as specified by Engineer	No	1		
1.1.23	Provision of a lighting system/security light with a back up system capable of illuminating the whole area around the solar system for 12 housrs as well as around the sump area mounted on a 5M high galvanised tube	No	2		
1.1.24	Installation sundries and fittings	Item	1		
	<b>BILL TOTAL TAKEN TO SUMMARY PAGE</b>				
	<b>BILL NO 3: RISING MAIN PIPELINE</b>				
<b>ITEM No</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE (Kshs)</b>	<b>AMOUNT (Kshs)</b>

<b>2</b>	<b>SITE CLEARANCE</b>				
	<i>Site clearance of clear water pipeline works site, trees to be cleared to be identified by the Engineer: Rate to include for carting away and disposing cleared</i>				
2.1	Site clearance as specified for pipelines.width 2m	m <sup>2</sup>	2000		
2.1.1	E.O. item above for removal of trees and stamps of girth 0.5-1.0m	nr	50		
<b>2.2</b>	<b>Excavate ,lay and join</b>				
	<i>The rates shall include for all strutting, shuttering, stabilising the excavation faces, and keeping the excavation free of water by pumping, bailing or other means.Rate to include transport to site,storage,joining materials,fusion,complete set of galvanised bolts and washers,nuts aappropriate gaskets</i>				
<b>2.2.1</b>	Excavation and backfilling in normal material for pipeline for depth n.e 1.0m	M	2,300		
<b>2.2.2</b>	Extra over for rock material	M	500		
2.3	<b>HDPE Pipework</b>				
	<i>Provide, lay, joint and test the following HDPEpipes and fittings with rubber ring joints. Rates to include all jointly materials, cutting ,wastage and achorage.</i>				
2.3.1	OD 90mm HDPE PN12.5 pipe	M	2,300		
<b>2.3.2</b>	Supply and installation of non return valves	nr	2		
<b>2.4</b>	<b>PIPE WORK- FITTINGS AND VALVES</b>				
<b>2.4.1</b>	Excavate for,provide all materials and construct complete air valve chambers .Internal dimensions 1000x1000x1000mm.Rates to include for all thrust blocks,pipe support ,inspection covers ,etc.	nr	3		
<b>2.4.2</b>	1 No.Single air valve complete with accessories	nr	1		
<b>2.5</b>	<b>pipe work -ancillaries</b>				
<b>2.5.1</b>	supply and install marker posts as shall be directed	nr	10		
	<b>BILL TOTAL TAKEN TO SUMMARY PAGE</b>				
	<b>ILL NO 3: SUB-MAIN PIPELINES</b>				
<b>ITEM No</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE (Kshs)</b>	<b>AMOUNT (Kshs)</b>
<b>3</b>	<b>SITE CLEARANCE</b>				

	<i>Site clearance of clear water pipeline works site, trees to be cleared to be identified by the Engineer: Rate to include for carting away and disposing cleared</i>				
3.1.1	General Site clearance ;width 2m	m <sup>2</sup>	3000		-
<b>3.2</b>	<b>Excavation</b>				
	<i>The rates shall include for all strutting, shuttering, stabilising the excavation faces, and keeping the excavation free of water by pumping, bailing or other means</i>				
3.2.1	Excavation and backfilling in normal material for OD 63mm dia for depth n.e 1.0m	M	3,000		-
<b>3.3</b>	<b>GI Pipework and fittings</b>				
	<i>Provide, lay, joint and test the following pipes and fittings. Rates to include all jointly materials, cutting ,wastage and achorage.GI pipes for crossing road, gullies, riverand rocky areas</i>				
3.3.1	63mm x 25mm saddle clamps	No	50		
3.3.2	63mm dia Sluice valve/gate valves	No	10		
3.3.3	25mm dia gate vlaves	No	50		
3.3.4	HDPE 25mm dia teec with end caps	No	60		
3.3.6	supply and fix 63mm single air valve complete together with accessories	No	3		
<b>3.4</b>	<b>HDPE Pipework</b>				
	<i>Provide, lay, joint and test the following HDPE pipes and fittings with rubber ring joints. Rates to include all jointly materials, cutting ,wastage and achorage.</i>				
3.4.1	63mm HDPE PN12.5 pipe	m	3,000		
<b>3.5</b>	<b>VALVE CHAMBERS</b>				
3.5.1	Excavate for, provide all materials and construct complete inspection and air valve chambers of internal dimensions 1000 x 1000 x 1000 mm at juntions . Rates to include provision of fabricated mild steel covers and locks as shown in the drawings.	No	10		
	<b>BILL TOTAL TAKEN TO GRAND SUMMARY</b>				

	<b>BILL NO 4: 200M3 MASONRY TANK</b>				
<b>Item</b>	<b>Description</b>	<b>UNIT</b>	<b>QTY</b>	<b>Rate</b>	<b>Kshs</b>
4.1	<b>Element No.1: Excavation &amp; Earth Works</b>				
4.1.1	General excavation to remove top soil to an average depth of 250mm	m <sup>2</sup>	16.00		
4.1.2	General Excavation for foundation depth not exceeding 1000mm	m <sup>3</sup>	32.00		
4.1.3	Exta Over for Excavation in rock	m <sup>3</sup>	25.00		
4.1.4	Cart away surplus excavated material & deposit at recommended area	m <sup>3</sup>	73.00		
4.1.5	300mm thick approved hard-core, well compacted in layers not exceeding 150mm and blinded using 50mm murrum/quarry dust	m <sup>2</sup>	40.00		
4.2	<b>Element No.2: Masonry Work</b>				
4.2.1	150 x375X 250mm natural stone to walling in 1:3 sand/cement mortar finished with steel finished on one side.	m	168.00		
4.2.2	150 x300X 250mm natural stone to walling in 1:3 sand/cement mortar finished with steel finished on one side.	m	140.00		
4.2.3	150 x225X 250mm natural stone to walling in 1:3 sand/cement mortar finished with steel finished on one side.	m	280.00		
4.3	<b>Element No.3: Concrete Work</b>				
4.3.1	Reinforced concrete grade 25/20 - 150mm thick floor slab	m <sup>3</sup>	15.00		
4.3.2	Reinforced concrete grade 25/20 - in 800 X 800mm X200mm THK sump	m <sup>3</sup>	0.15		

4.3.3	Reinforced concrete grade 25/20 - 150mm thick floor slab	m <sup>3</sup>	15.00		
4.3.4	Reinforced concrete grade 15 in support to access ladder	m <sup>3</sup>	0.15		
4.4	<b>Element No. 4: Concrete Ancillaries</b>				
4.4.1	<b>Formwork</b> Provide cut and fix in position sawn timber formwork or equivalent.				
4.4.1.1	a) edges ground slab 150mm wide	m	32		
4.4.1.2	b) Sump edges, 200mm Deep	m	2		
4.4.1.3	c) Edges of roof slab 200mm THK	m	32		
4.4.1.4	d) Underneath roof slab, including props	m <sup>2</sup>	70		
4.4.2	<b>Reinforcement</b>  Steel reinforcement cut, bend & placed in position, unit price to include cutting, bending & placing in position with binding wire and concrete seats				
4.4.2.1	a) 10mm diameter high tensile steel (0.62kg/m <sup>2</sup> ) in floor slab	m	580		
4.4.2.2	b) 10mm diameter high tensile steel (0.62kg/m <sup>2</sup> ) in offtake sump	m	75		
4.4.2.3	c) 16mm diameter high tensile steel (1.58kg/m <sup>2</sup> ) in column	m	189		
4.4.2.4	d) 12mm diameter high tensile steel (0.89kg/m <sup>2</sup> ) in roof slab	m	125		
4.4.2.5	e) 10mm diameter high tensile steel (0.62kg/m <sup>2</sup> ) in roof slab	m	525		
4.4.2.6	f) 8mm diameter high tensile steel (0.62kg/m <sup>2</sup> ) in roof slab	m	690		
4.4.2.7	g) 6mm diameter high tensile steel (0.22kg/m <sup>2</sup> ) in roof slab	m	50		
4.4.2.8	h) 10mm diameter mild steel (0.62kg/m) in roof masonry walling	m	1465		
4.4.2.9	i) 8mm diameter mild steel (0.42kg/m) in roof masonry walling	m	365		
4.5	<b>Element No.5: Pipes and Fittings</b>  All pipes to be Galvanised Iron with Screw				



4.5.1	100mm Diameter, 90° GI bend	No.	4		0.00
4.5.2	100mm Diameter barrel nipple	No.	1		0.00
4.5.3	150 X 100mm GI reducing Socket	No.	1		
4.5.4	100mm GI Socket	No.	8		
4.5.5	100mm Diameter Flange	No.	4		
4.5.6	100mm Gate Valve	No.	3		
4.5.7	100mm Peglar or approved Water Meter Complete with all 50.25mm reducer fittings	No.	2		
4.6	<b>Element No.6: Finishes</b>				
4.6.1	Pointing to all External wall surfaces with cement sand mortar 1:2	m²	110		
4.6.2	Apply plastering to internal wall surfaces, mortar mixer 2:1 (cement sand) mixed in waterproofing cement/admixture	m²	140		
4.6.3	Cement wash to external wall surface	m²	140		
4.6.4	Provide 3 coats of bituminous paint to all exposed concreted faces	m²	140		
4.6.5	Bondex Joint to masonry walling	m	140		
4.7	<b>Element No.7: Miscellaneous</b>				
4.7.1	Provide 4No Vent pipes using 100mm GI pipes	No.	4		
4.7.2	Allow for 450 X 450mm Access on roof slab	No.	1		
4.7.3	Provide and install 75mm wide roof access ladder proper secured to the tank wall as directed	m	1		

4.7.4	Provides heavy duty lockable manhole cover to roof slab access chamber	No.	1		
4.7.5	Provide material and construct masonry chamber 1.0 X1.0 X1.2m	No.	3		
	<b>BILL TOTAL TAKEN TO GRAND SUMMARY</b>				-
	<b>BILL No. 5: SITE WORKS</b>				
<b>ITEM</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>AMOUNT</b>
<b>No.</b>				<b>(Kshs)</b>	<b>(Kshs)</b>
5	<b>MISCELLANEOUS METAIL WORKS</b>				
	<b>Fencing for entire Solar structure and masonry tank areas</b>				
5.1.1	Excavate for post holes, provide all materials and construct fence using 2.5mm/14 gauge tripple twist chain link fence mortised in concrete atleast 100mmx50mm for anchorage,standard pre-cast cranked concrete posts150mmx125mmx2.5M high mortised in concrete at 2.5 metres centre to centre of post as per details on drawings including ,straining posts at every tenth post and additional posts at corners.Supply and fix barned wire ( 16 gauge ,25kg) 7 stands; 4 bottom and 3 top	M	120		
5.1.2	Provide all materials, fabricate and fix metal gate, 5.0m wide x 2.4m high made of 3mm thick diameter GMS mesh welded on a 50mm diameter frame, pedestrain access gate including 2nr. concrete columns/pillars as provided in drawing. Rate to include pedestrain gate,safety lock,Paint untirust and two coats of metallic paint.	No	2		
	<b>BILL TOTAL TAKEN TO GRAND SUMMARY</b>				
<b>ITEM</b>	<b>ITEM DESCRIPTION</b>	<b>AMOUNT</b>			
1	SOLAR PUMPING SYSTEM				
2	RISING MAIN PIPELINE				
3	SUB-MAIN PIPELINES				
4	200M3 MASONRY TANK				
5	SITE WORKS				
	<b>SUB- TOTAL FOR SITE 1</b>				

LOWER YOGOT WATER DISTRIBUTION SYSTEM;ELGEYO MARAKWET COUNTY					
	SITE 2:KIPSOEN DISTRIBUTION NETWORK				
	BILL NO 1: SUB-MAIN PIPELINES				
ITEM No	ITEM DESCRIPTION	UNIT	QTY	RATE (Kshs)	AMOUNT (Kshs)
1	SITE CLEARANCE				
	<i>Site clearance of clear water pipeline works site, trees to be cleared to be identified by the Engineer: Rate to include for carting away and disposing cleared</i>				
1.1	General Site clearance ;width 2m	m <sup>2</sup>	3000		
1.2	Excavation				
	<i>The rates shall include for all strutting, shuttering, stabilising the excavation faces, and keeping the excavation free of water by pumping, bailing or other means</i>				
1.3	Excavation and backfilling in normal material for OD 63mm dia for depth n.e 1.0m	M	3,000		
1.4	GI Pipework and fittings				
	<i>Provide, lay, joint and test the following pipes and fittings. Rates to include all jointly materials, cutting ,wastage and achorage.GI pipes for crossing road, gullies, riverand rocky areas</i>				

1.4.1	63mm x 25mm hdpe saddle clamps	No	50		-
1.4.2	63mm dia Sluice valve/gate valves	No	10		
1.4.3	25mm dia gate vlaves	No	50		
1.4.4	25mm dia hdpe tee with end caps	No	50		
1.4.5	Supply and fix 63mm single air valve complete together with accessories	No	3		
1.4.6	<b>HDPE Pipework</b>				
	<i>Provide, lay, joint and test the following HDPE pipes and fittings with rubber ring joints. Rates to include all jointly materials, cutting ,wastage and achorage.</i>				
1.4.7	63mm HDPE PN12.5 pipe	m	3,000		
<b>1.4.8</b>	<b>VALVE CHAMBERS</b>				
1.4.9	Excavate for, provide all materials and construct complete inspection ,air valve and washout chambers of external dimensions 1000 x 1000 x 1000 mm . Rates to include provision of fabricated mild steel covers and locks.	No	10		
1.4.10	Supply and install a solar powered security light at the dam area on a 5m high 63mm circular hollow galvanized tube.The system should have the capacity to light up the area for 12 hours	No	2		
	<b>BILL TOTAL TAKEN TO GRAND SUMMARY</b>				

GRAND SUMMARY					
ITEM	ITEM DESCRIPTION	AMOUNT			
1	PRELIMINARY AND GENERAL ITEMS	2,003,500.00			
2	SUB-TOTAL FOR KIPTINGO; SITE 1				
3	SUB-TOTAL FOR KIPSOEN;SITE 2				
	SUB-TOTAL ELEMENT 1,2 AND 3				

	CONTIGENCIES 2.25%	
	<b>GRAND TOTAL</b>	