



KENYA ELECTRICITY GENERATING COMPANY PLC

RFx: 5000016650

TENDER No. KGN-GDD-024-2025

TENDER FOR PROPOSED PHASE 1 CONSTRUCTION OF HERBARIUM AND OFFICES.

(PWD Enterprises)

Dated: 26<sup>th</sup> March, 2025

Addendum No.1.

In accordance with the Tender for Proposed Phase 1 Construction of Herbarium and Offices, KenGen issues an Addendum No.1 as follows:

**EXTENSION OF TENDER CLOSING DATE**

INITIAL TENDER CLOSING DATE	REVISED TENDER CLOSING DATE
Tender Closing Date: <del>8<sup>th</sup> April, 2025 at 10.00 a.m.</del>	Tender Closing Date: <b>22<sup>nd</sup> April, 2025 at 10.00 a.m.</b>
Tender Opening Date: <del>8<sup>th</sup> April, 2025 at 10.30 a.m.</del>	Tender Opening Date: <b>22<sup>nd</sup> April, 2025 at 10.30 a.m.</b>

*Bidders are advised to use the revised bills of quantities schedule provided below in their bidding submissions.*

**SECTION V-REVISED BILLS OF QUANTITIES**

**NOTE**

- a) All unit rates **MUST** be entered **EXCLUSIVE** of 16% VAT.  
 b) All other government taxes (except 16% VAT), statutory fees, charges, levies, duties, etc..... **MUST** be included in the unit rates.

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSh.)	AMOUNT (KSh.)
	<b>ELEMENT NO. 1</b>				
	<b>PRELIMINARIES</b>				
	<b>Site office, Sheds for storage of Materials</b>				
1.01	Allow for Prime Sum for site management, site safety and security, workplace and site clean-ups during and on completion of works, waste disposal, trainings, meetings, awareness sessions, portable water consumption, site power consumption (contractor own power), insurances, provision of site facilities such as office accommodation, storage, workshop facilities, serviceable and clean pit latrine, all to be decommissioned on completion of the project, project consumable materials, temporary works or similar not covered elsewhere in this BOQ; Allow for watching (by competent watchmen) and lighting; remove thereupon completion of the project, and make-good grounds upon which the premises have been removed	ITEM	1		
	<b>Material Testing</b>				
1.02	Allow for material testing and inspection during project execution period	SUM	1	30,000.00	30,000.00
1.03	Extra over item No. 1.02 for contractor's overheads and profits (%)	%	30,000.00		
	<b>Contingency Amount</b>				
1.04	Allow for KShs. 300,000 for Contingency Amount	PS	1	300,000.00	300,000.00
1.05	Extra over item No. 1.04 for contractor's overheads and profits (%)	%	300,000.00		
	<b>Total Carried to Main Summary</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSh.)	AMOUNT (KSh.)
	<b>ELEMENT No. 2</b>				
	<b>SUBSTRUCTURES</b>				
	<b>ALL PROVISIONAL</b>				
	<i>Note: The work in this element includes all works up to and including the Ground floor slab</i>				
	<b>Excavation &amp; Earthworks</b>				
2.01	Allow for survey and setting out the Works in accordance with the dimension and levels shown on architectural and structural drawings	SUM	1		
2.02	Clear the site of all bushes, shrubs, undergrowth, small trees and the like, grub up their roots and burn the arising on site	SM	245		
2.03	Excavate oversite to reduced levels not exceeding 300mm deep	CM	75		
2.04	Excavate pits for column bases commencing from stripped level but not exceeding 1.5metres deep and cart away to spoil heaps.	CM	75		
2.05	Excavate foundation trenches commencing from ground level but not exceeding 1.5metres deep and cart away to spoil heaps.	CM	210		
2.06	Extra over all excavation for excavating in rock at any depth.	CM	15		
2.07	Allow for keeping excavations free from general water.	ITEM	1		
2.08	Allow for planking, strutting and shoring to sides of all excavations keep excavations free from all fallen materials.	ITEM	1		
	<b>PLAIN CONCRETE CLASS 15 mix (1:3:6) / 20mm Aggregate, including formwork:</b>				
2.09	50mm thick blinding under column bases.	SM	30		
2.10	Ditto under foundation wall footing	SM	85		
	<b>REINFORCEMENT</b>				
	<b>Deformed bars reinforcing steel to BS4449:2005 : including cutting to length, bending, hoisting, fixing and spacing blocks</b>				
2.11	Assorted sizes in bases & sub-columns and strip foundation	KG	3,400		
	<b>VIBRATED REINFORCED INSITU CONCRETE CLASS 25 mix (1:1.5:3)/20mmAggregate, in:</b>				
2.12	Column bases	CM	12		
2.13	Strip foundation	CM	17		
2.14	Sub-Columns	CM	5		
2.15	150mm thick ground floor Slab	SM	245		

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSh.)	AMOUNT (KSh.)
	<b><u>Imported filling</u></b>				
2.16	150 mm Murram fillings: deposited, spread; well-watered levelled and compacted in layers not exceeding 150mm thick under floors to level and slope as required	CM	245		
2.17	Crushed stone hardcore fill; well compacted in layers not exceeding 150mm	CM	95		
2.18	50 mm Stone dust blinding to surfaces of hardcore rolled smooth to receive polythene damp proofing membrane (m/s)	SM	245		
	<b><u>Anti-termite Treatment</u></b>				
2.19	Termidor' or other equal and approved ant termite insecticide treatment with ten years guarantee, applied strictly in accordance with manufacturer's instructions, to tops of fill and foundation walls	SM	245		
	<b><u>Damp proofing(DPM)</u></b>				
2.20	1000 gauge polythene sheet damp proof membrane including 150mm overlaps: to floors	SM	245		
	<b><u>Fabric mesh reinforcement : to BS 4483 as described</u></b>				
2.21	Single layer of mesh reinforcement: Reference No. A142; weighing 2.22kg/m <sup>2</sup> and including 150mm end and side laps, tying wires and spacers to Floor bed	SM	245		
	<b><u>WALLING</u></b>				
	<b><u>Quarry stone bedded and jointed in cement and sand (1:3 ) mortar, reinforced with and including 25mm x 3mm hoop iron wall ties in every alternate course</u></b>				
2.22	200mm thick in foundations	SM	310		
	<b><u>PLINTH FINISHES</u></b>				
	<b><u>15mm Cement and sand (1:3) plaster to:</u></b>				
2.23	12mm Wood floated waterproof cement and sand (1:4) render: on concrete or stonework(450mm high)	SM	175		
	<b>Total Carried to Summary</b>			<b>Kshs</b>	

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSh.)	AMOUNT (KSh.)
	<b>ELEMENT No. 3</b>				
	<b>REINFORCED CONCRETE SUPERSTRUCTURE</b>				
	<i>Note: The work in this element includes all works up roof including associated sawn formwork</i>				
	<b>VIBRATED REINFORCED CONCRETE CLASS 25 mix (1:1.5:3) / 20mmAggregate, in:</b>				
3.01	Columns	CM	5		
3.02	Beams	CM	12		
	<b>REINFORCEMENT</b>				
	<b>Deformed bars reinforcing steel to BS4449:2005 : including cutting to length, bending, hoisting, fixing and spacing blocks</b>				
3.03	Assorted sizes in: columns & beams	KG	1,650		
	<b>Total Carried to Summary</b>			<b>Kshs</b>	

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSh.)	AMOUNT (KSh.)
	<b><u>ELEMENT No. 4</u></b>				
	<b><u>WALLING AND PARTITIONS</u></b>				
4.01	200 mm wide approved quality 3-ply bituminous felt damp proof course(DPC) under walls	LM	140		
	<b>Machine cut natural stone walling with a minimum of 7.0 N/mm<sup>2</sup> average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:3) mortar; reinforced with 25 x 3 mm thick hoop iron strips at alternate courses to: -</b>				
4.02	200mm thick wall	SM	410		
	To summary			KShs	

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSh.)	AMOUNT (KSh.)
	<b>ELEMENT No.5</b>				
	<b>ROOFING &amp; RAIN WATER DISPOSAL</b>				
	<b>ROOF FRAMEWORK (All Timber)</b>				
	The rates for timberwork shall include all connection plates, nails, bolts, nuts, washers and all connections as per Engineer's detailed drawings				
	<b>TRUSSES</b>				
5.01	50x150mm Rafters	LM	270		
5.02	Ditto in tie beam	LM	185		
5.03	50x100mm struts and ties	LM	410		
5.04	75x50mm purlins	LM	365		
5.05	100x50mm wall plates	LM	60		
5.06	38x250mm Ridge board	LM	30		
	<b>Eaves boarding</b>				
	<b><u>T &amp; G Ceiling</u></b>				
	<b><u>Sawn treated cypress</u></b>				
5.07	100 x 25mm T & G boarding secretly nailed to and including 50 x 50mm sawn celcured cypress battens at 600mm c/c	SM	65		
	<b><u>Prepare and apply three coats first grade polyurethane clear varnish: on wood: to</u></b>				
5.08	General surfaces of T & G ceiling	SM	65		
	<b>Fascia and barge boards</b>				
5.09	Supply and fix, 25 x 225mm fascia and barge boards with splayed bottom edges, nailed to ends of timber roof framework.	LM	95		
5.10	Knot, prime, stop, prepare and apply three coats of high gloss enamel paint to surfaces of the fascia and bargeboards 200 - 300mm girth.	LM	95		
	<b><u>ROOF COVERING</u></b>				
	<b><u>Supply and fix gauge 28 IT4 Zinc coated aluminium box profiled roofing sheet on timber truss "with and including 100mm end laps and</u></b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSh.)	AMOUNT (KSh.)
	<u>75mm side laps to include ridge caps, hip caps iron valley gutters and other accessories;</u>				
5.11	Sloping Roof covering at 22° to horizontal	SM	345		
	<u>Rain Water Disposal</u>				
5.12	180mm diameter UPVC heavy duty half round with support brackets at 1200c/c	LM	60		
5.13	75 mm diameter UPVC downpipe fixed to wall with and including holder butts at 1000mm centers	LM	25		
5.14	Extra over ditto for shoe	NO	10		
5.15	Extra over ditto for swan neck offset 600mm long	NO	10		
5.16	100mm diameter outlet including connection to uPVC down pipe (m.s)	NO	10		
	<b>Total Carried to Summary</b>			<b>Kshs</b>	



ITEM	DESCRIPTION	UNIT	QTY	RATE (KSh.)	AMOUNT (KSh.)
	<u>ELEMENT No. 6</u>				
	<u>WINDOWS</u>				
	<u>ALUMINUM WINDOWS</u>				
	<i>Supply, assemble and fix; Medium duty powder coated aluminium sliding windows Including Burglar Proofing of 25mm x 25mm x 3mm Thick Square tube as per schedule: 100 X 50 mm x 3mm Thick frames and rails: including one way 8.38 mm Thick laminated solar glass with 33% Solar radiation transmission factor, solar factor 0.47, solar shading coefficient 0.54 (to BS EN 673 and BS EN 410) as Saint-Gobain Glass Antelio Plus Blue Ray (ST 767) or equal and approved ; and including 15x 10mm aluminium fixing beads and approved gaskets: plugged screwed to concrete or blockwork: including hinges, brass fastenings and stays; ironmongery and accessories: all as per Architects schedule: oiling : including 300 mm wide permanent vents louveres at all top sections of frames with mosquito gauze</i>				
6.01	Window type W1 overall size 1500mm x 800mm high	No.	2		
6.02	Window type W4 overall size 800mm x 800mm high	No.	6		
	<b>Total Carried to Summary</b>			<b>Kshs</b>	

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSh.)	AMOUNT (KSh.)
	<b><u>ELEMENT No. 7</u></b>				
	<b><u>DOORS</u></b>				
	<b><u>INTERNAL DOORS</u></b>				
	<b><u>45mm thick semi-solid flush door with 3mm plywood facing on both faces</u></b>				
7.01	Door type D2 overall Size 900 x 2400mm high :	No.	6		
	<b><u>WROT CYPRESS FRAMES AND MOULDINGS to Client's approval</u></b>				
7.02	100 x 50mm Frames ; 15 x 45mm rebate with two labours	LM	45		
7.03	50 x 25mm Architrave : moulded	LM	45		
7.04	20mm Quadrant moulding	LM	45		
	<b><u>Supply and fix the following ironmongery including all necessary furniture and fixing accessories : locks and furniture where applicable are to be equal to those manufactured by "UNION" and approved by the Architect</u></b>				
7.05	100mm brass butt hinges	Prs	60		
7.06	2-Lever lock as UNION 2277	No.	8		
7.07	Aluminium hat and coat hooks	No.	8		
7.08	32mm diameter floor mounted door stop as UNION 8400	No.	8		
	<b><u>PREPARE SURFACE AND APPLY ONE COAT PRIMER, one undercoat and two gloss finishing coats on;</u></b>				
7.09	General timber surfaces	SM	40		
	<b><u>EXTERNAL DOORS FOR THE WASHROOM</u></b>				
	<b><u>MAHOGANY PANELED HARDWOOD DOORS</u></b>				
	<b><i>45mm Thick Paneled Mahogany solid core door with hardwood lipping; panels complete with frames and all the necessary ironmongery including Hinges, 3-lever door Locks, Door stays, Door closure and 450mm long handles</i></b>				
7.10	Door type D1 Overall Size 900 x 2400mm high	No.	2		
	<b><u>MAHOGANY FRAMES AND MOULDINGS to Client's approval</u></b>				
7.11	100 x 50mm Frames ; 15 x 45mm rebate with two labours	LM	15		
7.12	50 x 25mm Architrave : moulded	LM	15		
7.13	20mm Quadrant moulding	LM	15		
	<b>Total Carried to Summary</b>			<b>Kshs</b>	

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSh.)	AMOUNT (KSh.)
	<b>ELEMENT No. 8</b>				
	<b>INTERNAL FINISHES TO WASHROOMS:</b>				
	<b>FLOOR FINISHES</b>				
	<b>Cement and sand (1:4) screeded beds: on concrete: to floors</b>				
8.01	30 mm Thick to receive Ceramic tiles (measured separately)	SM	55		
8.01	Approved ceramic tiles size 450 x 450 x 10 mm thick; 95% free from visible defects ; plus or minus 5% maximum side straightness deviation ; group 5 or PEI 5 surface abrasion ; PEI5 stain resistant ; less than 0.5 % water absorption ; frost resistant ; chemical resistant ; bedding and jointing in approved porcelain adhesive including skirting	SM	55		
	<b><u>WALL FINISHES</u></b>				
	<b>15mm thick two coat cement-sand (1:4) plaster troweled smooth and comprising 12mm backing and 3mm finishing coat.</b>				
8.03	Walls and Beams finished to receive paint	SM	170		
	<b>Supply and fix 200 x 300 x 6mm thick glazed ceramic wall tiles on;</b>				
8.04	plastered walls including approved quality plastic corner strips	SM	80		
	<b><u>PAINTING AND DECORATING</u></b>				
	<b>Prepare and apply one undercoat and two finishing coats first grade plastic emulsion paint - Vinyl Silk Emulsion - to approved colour to plastered walls internally</b>				
8.05	Walls	SM	95		
	<b><u>CEILING FINISHES</u></b>				
	<b>ARMSTRONG MINABOARD ACCESSIBLE TILE SYSTEM SUSPENDED CEILINGS, 600 x 600 x 15 mm Thick fissured mineral fiber tiles: 20 mm x 7 mm x 25 mm Gauge epoxy acrylic protected snab tee runners at 600 mm Centers in three meter lengths: jointed with 29 mm x 20 mm x 170 mm x 20 Gauge hot dipped galvanized splice plates with 20 mm expansion edge trim of 20 mm x 25 Gauge: two coat vinyl white painted channel edge trim: fixed with screws to background requiring plugging</b>				
8.06	Ceilings	SM	55	1500	
	<b>Total Carried to Summary</b>			<b>Kshs</b>	

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSh.)	AMOUNT (KSh.)
	<b><u>ELEMENT No. 9</u></b>				
	<b>PLUMBING AND DRAINAGE INSTALLATIONS ALL PROVISIONAL</b>				
	<b>NOTE:</b> The RATES inserted should include for:-				
	(1) Fixing complete with all necessary cutting and jointing along the running lengths, waste, shorts and supports.				
	(ii) Forming chases, mortices holes in walls and concrete structure including making good surfaces.				
	<b>SANITARY FITTING</b>				
	<b>Supply and install the following sanitary fittings and accessories including all connections to services, wastes, jointing to supply, over flows pipes and all plugging and screwing to walls and floors.</b>				
	<b>Water closet</b>				
9.01	White vitreous china dual flush, close coupled W.C. suite comprising of closet "P" or "S" trap, 9 liters cistern with valve less fitting and plastic syphon, plastic flush bend, heavy duty plastic seat and cover; pan plugged and screwed to concrete floor and bedded in mastic and cistern fixed to walls to be as "Lecico" or equal and approved.	NO	4		
	<b>Water closet accessories</b>				
9.02	White vitreous china built in toilet roll holder size 205 x 150mm.	NO	4		
9.03	15mm diameter flexible connectors, 300mm long complete with chrome plated angle valve including union jointing to steel tubing and the sanitary fittings.	NO	4		
	<b>Wash hand basin</b>				
9.04	White vitreous china wash hand basin size 350 x 455mm as "Nova" complete with 1No.12mm chrome plated sink tap "Vado" or equal and approved.	NO	4		
	<b>Wash hand basin accessories</b>				
9.05	32mm Diameter heavy duty plastic bottle trap complete 32mm chrome plated waste, plug, chain and stay; fixing steel brackets and all necessary accessories	NO	4		
9.06	15mm diameter flexible connectors, 300mm long complete with chrome plated angle valve including union jointing to steel tubing and the sanitary fittings.	NO	4		
	<b>Shower Fittings</b>				
9.07	100mm diameter heavy duty plastic shower rose fixed to galvanized iron shower arm	NO	4		

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSh.)	AMOUNT (KSh.)
9.08	450mm long silver painted galvanized iron shower arm with end fixed to CPVC adapter the other with socket ready to receive instant shower heater.	NO	4		
9.09	Shower bib tap complete with galvanized mild steel nipple Connection as "Pegler" or other equal and approved	NO	4		
9.10	Shower stop cork in chrome plated steel as "Cobra" or other equal and approved	NO	4		
	<b>Soap Tray</b>				
9.11	White vitreous china built in soap tray size 205 x 150mm	NO	4		
	<b>Mirror</b>				
9.12	610 x 457 x6mm Thick Glass plate mirror as "Impala glass" or equal and approved fixed to wall with 4No.chrome plated dome capped screws and 5mm thick foam back rest.	NO	4		
	<b>Instant electric shower head heater</b>				
9.13	Instant electric shower head heater with embedded rod type sheathed element. Electrically insulated with electronic temperature control complete with wide rose and overflow to withstand a working pressure of up to 400kpa. It shall have a heating capacity of about 5.5kw and complete with extension shower arm and 4mm <sup>2</sup> electric supply cable to neon lit DP switch, all to be as "Lorenzetti" or equal and approved	No.	2		
	<b>Towel rail</b>				
9.14	Chrome plated 20mm diameter x 600mm long double towel rail and brackets as one piece, plugged and screwed into the wall.	NO	2		
	<b><u>DRAINAGE</u></b>				
9.15	Excavate trenches for 150mm diameter uPVC pipes, part fill and ram	LM	100		
9.16	Ditto but for 100mm diameter pipe	LM	50		
9.17	Supply, lay and joint 150mm diameter heavy gauge uPVC pipes in trenches	LM	100		
9.18	Ditto but for 100mm diameter pipe	LM	50		
9.19	Excavate pits for manholes commencing from ground level but not exceeding 1.50metres deep and cart away.	CM	10		
9.20	Supply materials and construct masonry walled manholes of internal size 700 x 700 x 1000mm deep (average) on 100mm thick concrete (1:2:4) bed and cover including 15mm thick water proof plaster internally and medium density cast iron covers and frames	No.	10		
9.21	Allow for plumbing and drainage pipe work to connect to existing networks and for connection of	ITEM	1		

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSh.)	AMOUNT (KSh.)
	water from overhead tanks to WCs, Showers and WHBs including testing the whole system				
	<b>Total Carried to Main Summary</b>			<b>Kshs</b>	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSh.)
	<b><u>ELEMENT No.10</u></b>				
	<b><u>ELECTRICAL WORKS</u></b>				
	<b><u>Electrical works to be executed by an EPRA (Energy and Petroleum Regulatory Authority) Licensed Electrician C-1 OR C-2</u></b>				
	<b><i>NOTE:</i></b> <i>i. All wire connections are to be done using recommended strip connectors</i> <i>ii. All cable terminals are to be neatly marked/labeled at both terminal ends</i> <i>iii. All wiring must be concealed in conduits neatly arranged and secured above the ceiling.</i> <i>iv. Accessories here mentioned include but are not limited to junction boxes, cable lugs, requisite fastening screws, conduit elbows, unions,</i> <i>v. Test results must be presented in a test report</i>				
	<b><u>Electrical Engineering Services</u></b>				
	<b><i>Builders work in connection with Electrical Engineering services</i></b>				
	<b><i>Cut and/or chase and make good thereafter for electrical installations including associated switches and concealed conduits therewith: for</i></b>				
10.0 1	Lighting points/switches	NO	4		
10.0 2	Power points	NO	4		
10.0 3	Consumer unit	NO	1		
10.0 4	Meter Board	NO	1		
	<b><u>Consumer Units and Distribution Boards</u></b>				
10.0 5	Supply, wire, install and test 12-way consumer unit complete with 100A isolator with double pole isolator, 2No 32A, 2No 25A, 4No 10A circuit breakers	NO	1		
	<b><u>Socket Power Outlets</u></b>				
10.0 6	Supply, wire, install and test, Twin 13A switched moulded socket outlets complete with deep pattresses, 25mm conduits, 2.5mm <sup>2</sup> single core copper wires	NO	4		
10.0 7	Supply, wire, install and test, Single Switched, Instant shower socket outlets in 3x6mm <sup>2</sup> SC PVC CU in concealed 25mm diameter rigid HG PVC conduits	NO	2		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSh.)
	<b><u>Lighting Fittings and Accessories</u></b> <b><u>Supply, install, test, commission and set to work the following. All lighting fittings to be complete with lamp, control gear etc. as applicable.</u></b>				
10.0 8	Supply, wire, install, test 1-gang 1-way light switches complete with all accessories including deep patress, 1.5mm <sup>2</sup> single core copper cables and run in 20mm concealed conduits	NO	2		
10.0 9	Supply, wire, install, test, and commission 600mmx600mm Backlit LED Panel lights, 4000K, >4000 lumens, IP40, Ceiling mounted, CRI>80, Mean rated service life L80(tq 25 °C) of 100,000 h, Operating Voltage range (120-277V). The light source replaceable according to the eco-design requirements (VO (EU) 2019/2020). (Attach relevant datasheets)	NO	10		
	<b>Total Carried to Main Summary</b>			<b>Kshs</b>	



ITEM	MAIN BUILDING SUMMARY	AMOUNT (KSh.)
1	PRELIMINARIES	
2	SUB-STRUCTURES	
3	REINFORCED CONCRETE SUPERSTRUCTURE	
4	WALLING & PARTITIONS	
5	WINDOWS	
6	ROOFING	
7	DOORS	
8	INTERNAL FINISHES	
9	PLUMBING AND SANITARY FITTINGS	
10	ELECTRICAL WORKS	
	<b>SUB-TOTAL</b>	
	ADD: 16% VAT	
	<b>GRAND TOTAL</b>	

**SUPPLIER ACKNOWLEDGEMENT OF ADDENDUM No.1**

We, the undersigned hereby certify that the Addendum No.1 is an integral part of the document and the alterations set out in addendum has been incorporated in the Tender Proposal.

Signed.....

Tenderer.....

Date.....