





Gravel Road and Associated Works

<b>BILL OF QUANTITIES No. 1</b>					
<b>PRELIMINARIES AND GENERAL</b>					
Item No.	Description	Unit	Quantity	Rate	Amount
				KES	KES
<b>Total Brought Forward from Previous Page</b>					
	<u>Attendance Upon Project Manager's Staff</u>				
	Provide the following Staff for the Project Engineer's Office. (Note: The Staff to be employed by the Contractor)				
2.11	Chainmen, 4No.	Month	12.00		
2.12	Provide and maintain <b>office attendants (4 No.)</b> to carry out general office cleaning, preparation of tea, meals, and other related office support duties	Month	12.00		
2.13	Secretary, 1No.	Month	20.00		
2.14	Graduate Engineers 2No.	Month	20.00		
2.15	Assistant Surveyor 1No.	Month	12.00		
2.16	EHS Officer 1No.	Month	15.00		
	<u>Testing of Materials and Works</u>				
2.17	Allow a Sum for all laboratory and field tests required for the Works, including tests on soils, gravel/murram, aggregates, concrete, water, and any other tests as directed by the Engineer	Sample	300.00		
2.18	Allow a Sum of KES 5,000,000 per person per trip for Engineer office Staff and Employer's attendance during factory inspection of materials in the manufacturer's factory(5persons).	Trip	5.00		
2.19	Percentage adjustment for profit, administration, attendance upon, overheads, etc. for Items 2.17 and 2.18 above	%			
	<u>Project Sign Boards</u>				
2.20	Provide, erect and maintain for the duration of the contract project two(2) participant sign boards as directed by the Engineer.	No	2.00		
<b>Total Carried Forward to Next Page</b>					

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<b>PRELIMINARIES AND GENERAL</b>					
Item No.	Description	Unit	Quantity	Rate KES	Amount KES
<b>Total Brought Forward from Previous Page</b>					
	<u>Other Requirements</u>				
2.21	Allow a Sum of KES 50,000 per Km for setting out of the road works and survey, including all topographic survey, provision of benchmarks, reference pegs confirmatory engineering survey as required by the Engineer	Km	35.00		
2.22	Allow a provision of instruments, equipment, and all necessary staff as required by the Engineer <b>as per the attached list Appendix 3</b>	Sum	1.00		
2.23	Allow for a sum of KES 200,000 per month for maintainance for the duration of the contract Survey equipment for use by the Engineer's Representative for the entire duration of the contract	Month	12.00		
2.24	Percentage adjustment for profit, administration, attendance upon, overheads, etc. for Items 2.22 and 2.23 above	%			
2.25	Allow a sum for preparation of working drawings (Cross-Sections at 20m intervals and drainage structure setting out details) & earthworks computations and As-Built Drawings and delivery of the required copies in both hard and soft format as directed by the Engineer	Nr	3500.00		
<b>A3 Method Related Charges</b>					
	<u>Accommodation and Buildings</u>				
3.01	Establishment and maintenance of Contractor's camps, offices, facilities, etc. and provision of all equipment that will be required during the entire contract period and removal and demobilization after completion of the project	Month	24.00		
3.02	Allow for KES 200,000 per month for Provision for monthly office consumables like tea,Lunch, water, etc for the Engineer's Office	Month	12.00		
3.03	Allow for KES 100,000 per month for provision of refreshments during monthly progressive site meetings as may be required and directed by the Engineer	Month	12.00		
3.04	Allow for provision for Engineer's Accommodation (fully furnished and serviced) according to the specification and engineer's approval	Month	20.00		
<b>Total Carried Forward to Next Page</b>					











Gravel Road and Associated Works

<b>BILL OF QUANTITIES No. 8</b>					
<b>CULVERT &amp; DRAINAGE WORKS</b>					
Item No.	Description	Unit	Quantity	Rate	Amount
				KES	KES
	<i>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</i>				
8.12	Selected Backfill Material	m <sup>3</sup>	10		
8.14	Rockfill below Culverts	m <sup>3</sup>	10		
8.15	<b><u>Provide, Lay and Joint</u></b>				
	(a) 600mm dia Concrete pipe plot access culverts	m	3000		
	(b) 600mm Dia Concrete Pipe Culverts for access to public institutions	m	105		
	(c) 600mm Dia Concrete Pipe Cross culverts	m	605		
	(d) 900mm Dia Concrete Pipe Cross Culverts	m	740		
	(e) 1200mm Dia Concrete Pipe Cross Culverts	m	0		
8.16	<b><u>Concrete Class 15/20 to Beds, Sorrounds and Haunches</u></b>				
	(a) 600mm Dia Concrete Pipe to public institutions access culverts	m <sup>3</sup>	53.00		
	(b) 600mm Dia Concrete Pipe to road junctions culverts	m <sup>3</sup>	303.00		
	(c) 900mm Dia Concrete Pipe Cross Culverts	m <sup>3</sup>	636.00		
	(d) 1200mm Dia Concrete Pipe Cross Culverts	m <sup>3</sup>	0.00		
8.17	<b><u>Concrete Class 25/20 to Wingwalls, including reinforcement and formwork</u></b>				
	(a) 600mm Dia Concrete Pipe to public institutions access culverts	m <sup>3</sup>	166.00		
	(b) 600mm Dia Concrete Pipe to road junctions culverts	m <sup>3</sup>	956.00		
	(c) 900mm Dia Concrete Pipe Cross Culverts	m <sup>3</sup>	3012.00		
	(d) 1200mm Dia Concrete Pipe Cross Culverts	m <sup>3</sup>	0.00		
8.18	Concrete Class 20/20 to Minor Drainage Structures	m <sup>3</sup>	5.00		
8.19	Concrete Scour Checks Class 20/20	m <sup>3</sup>	36.00		
<b>Sub Total</b>					
<b>Total Carried Forward to Summary Page</b>					







Package 0- Roads and Drainage Bills of Quantites

BILL OF QUANTITIES No. 22					
DAYWORKS					
Item No.	Description	Unit	Quantity	Rate KES	Amount KES
<b>PLANT/EQUIPMENT</b>					
<i>(The Contractor's Basic Hire Rates)</i>					
A22.01	Truck Flat bed: 2.5 - 5 Tonnes	Hour	150.00		
A22.02	Truck with crane 4t	Hour	150.00		
A22.03	Water Tanker: 6000 - 8000 Lt.	Hour	150.00		
A22.04	Motor Grader (e.g. CAT 112F): 100 - 130 HP	Hour	150.00		
A22.05	Bulldozer BD65EX	Hour	150.00		
A22.06	Excavator 130-150hp	Hour	150.00		
A22.07	Backhoe loader 130-150hp	Hour	150.00		
A22.08	Pedestrian Roller: 700 - 1000 Kg.	Hour	150.00		
A22.13	Grass cutter	Hour	150.00		
A22.14	Vibrator pneumatic/Tamper	Hour	150.00		
A22.15	Tipper 17tonnes	Hour	300.00		
A22.16	Wheel loader(3-5tonnes)	Hour	400.00		
A22.17	Boring machine,81kw	Day	150.00		
A22.18	Air compressor 150CFM, 4250LPM	Day	150.00		
A22.19	Concrete mixer 14 Cu. Ft	Day	150.00		
A22.20	Poker Vibrator(Various Sizes)	Day	150.00		
A22.21	Water pump complete with engine; 10CM/Hr output	Day	150.00		
A22.22	Compressor machine with 3 jacks(Rock breaker)	Day	75.00		
A22.23	Single drum steel Vibrator roller: 9-10T, 130 HP	Hour	150.00		
A22.24	Mobile concrete mixers	Day	30.00		
<b>Total Carried Forward to Next Page</b>					





BILL OF QUANTITIES No. 23					
SOLAR STREET LIGHTING					
Item No.	Description	Unit	Quantity	Rate	Amount
				KES	KES
	(All quantities are subject to remeasurement)				
	<b>SECTION 2: KPA SECTION (FROM INTERCHANGE TO MAIN PORT GATE)</b>				
23.2	<b>Lighting Columns</b>				
	a) 10 meter high tapered octagonal single-section 10 Meter Octagonal pole with Bottom Diameter :- 155mm (A/F) Top Diameter:- 70mm (A/F), Thickness top to bottom 3mm, Base Plate 260*260*16mm.				
23.3	i) Single sided arm	No.	720.00		
	ii) Foundation Bolt:- M24 x 750 mm long x 04 nos.	No.	720.00		
	iii) Single Arm Bracket	No.	720.00		
23.4	<b>Lighting Column Foundation</b>				
	Supply and install concrete foundation for lighting columns whose rate must include submission of design calculations, pipe sleeves, reinforcements, high tensile grout, foundation bolts etc.				
	i) 10m (H) pole light	No.	720.00		
23.5	<b>Solar Luminaire</b>				
	<b>Supply and install and connect the following IP66 LED luminaire c/w LEDs, Solar Panel, LiFePO4 Battery with Battery Management System, and all mounting accessories and earthing as per specifications and drawings:</b>				
a)	Light Module: <b>1 X 250W</b> LED Solar Street Lantern Luminous efficacy 210lm/W) CCT 4000K, CRI 70, $\eta=84.49\%$ , Luminaire Luminous Flux 52,500lm, IP66 c/w control gears, LED driver Programmable. Class I electrical, IP66, IK08. Housing: die-cast aluminium, powder coated textured light grey. Complete with 4000K LED. lifetime 100,000hrs etc. to Philips Lighting or approved equivalent (Provisional) Inscribed (PROPERTY OF KPA). Solar Panel; 18Volts, 180 Watts, high-efficiency monocrystalline, Battery: 1536 WH, LiFePO4 lithium, >4000 cycles at 80% DOD Solar Charging time; 5-7 hours by bright Sunlight, Light time: 5-6 nights after full charging, Guard Level; IP66, Working Temperature: - 250C to 650C, Warranty: 10 years, Photocell Controll+Microwave Motion Sensor Contro+Remote Control+Battery Management System. Auto on/off/sensor. All to be submitted with the specific data sheets and manuals	No.	419.00		
<b>Total Carried Forward to Next Page</b>					

BILL OF QUANTITIES No. 23					
SOLAR STREET LIGHTING					
Item No.	Description	Unit	Quantity	Rate	Amount
				KES	KES
<b>Total Brought Forward from Previous Page</b>					
	Light Module: <b>1 X 200W</b> LED Solar Street Lantern Luminous efficacy 210lm/W) CCT 4000K, CRI 70, $\eta=84.49\%$ , Luminare Luminous Flux 21,100lm,IP66 c/w control gears, LED driver Programmable. Class I electrical, IP66, IK08. Housing: die-cast aluminium, powder coated textured light grey. Complete with 4000K LED. lifetime 100,000hrs etc. to Philips Lighting or approved equivalent (Provisional) Inscribed (PROPERTY OF KPA) Solar Panel; 18Volts, 160 Watts, high-efficiency monocrystalline,Battery: 60 AH, LiFePO4 lithium, >4000 cycles at 80% DOD,Solar Charging time; 5-7 hours by bright Sunlight,Light time: 5-6 nights after full charging,Guard Level; IP66,Working Temperature: - 250C to 650C,Warranty: 10 years,Photocell Controll+Microwave Motion Sensor Contro+Remote Control+Battery Management System. Auto on/off/sensor.All to be submitted with the specific data sheets and manuals.	No.	301.00		
23.6	<b>Earthing</b>				
	i) Earthing of every lighting columns to achieve less than 5 ohm in accordance to the specification.	No.	720.00		
23.7	<b>Labelling</b>				
	i) Labelling of all columns with reflective stickers to 3M or approved equivalent in accordance to the initial and numberings as per drawing.	No.	720.00		
23.8	<b>Miscellaneous</b>				
	i) Submission of shop drawings, samples, catalogues, etc. for approval.	Item	1		
	ii) Factory acceptance test of luminaires at the place of manufacture/assembly including passage, lodging, travelling etc for 6 persons.	Item	6		
	iii) Factory acceptance test of columns at the place of manufacture including passage, lodging, etc for 6 persons.	Item	6		
	iv) Provide Independent laboratory test for light fittings for the following features:- a) Photometrics b) IP rating. The Institution should be an accredited testing, inspection and certification body	Item	1		
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<b>BILL OF QUANTITIES No. 24</b>					
<b>RELOCATION AND PROPOSED NEW ROUTES FOR POWER DISTRIBUTION</b>					
Item No.	Description	Unit	Quantity	Rate	Amount
				KES	KES
<b>Total Brought Forward from Previous Page</b>					
24.5	Supply, transport, and construct a complete 11kV, 3-phase overhead distribution line using 75 mm <sup>2</sup> Aluminium Conductor Steel Reinforced (ACSR), including all associated works, materials, and fittings as follows	Km	8.51		
	i) Site reconnaissance, route survey, setting out, and marking of pole positions along the approved alignment.				
	ii) Supply and erection of [e.g., 11m reinforced concrete or galvanized steel poles], including excavation, foundation construction, backfilling, compaction, and curing to the Engineer's approval.				
	iii) Supply and installation of cross-arms, brackets, insulators (strain and suspension types), clamps, bolts, nuts, washers, and all associated line hardware suitable for 11kV operation				
	iii) Supply and stringing of 3-phase 75 mm <sup>2</sup> ACSR conductors, including sagging, tensioning, binding, installation of spacers, vibration dampers, connectors, and all necessary fittings for a complete line.				
	iv) Supply and installation of earth wire (if required) including all terminations, bonding, and continuity connections				
	v) Supply and installation of stays and struts, complete with galvanized stay rods, turnbuckles, stay wires, thimbles, and concrete anchors				
	vi) Provision of earthing for poles, stays, and transformer points using galvanized earth rods, 35 mm <sup>2</sup> bare copper/steel wire, clamps, and accessories; includes testing of earth resistance				
	Vii) Installation of anti-climbing devices, danger plates, phase plates, and pole numbering as required by utility standards				
	viii) Connection to existing 11kV network at both ends, including all necessary jointing kits, terminations, and jumpers.				
24.6	Allow for a sum of KES 296,000 per km for the rerouting of an existing 415V, 3-phase, 4-wire overhead low-voltage distribution line	Km	5.50		
24.7	Supply, transport, and construct a complete 415V, 3-phase, 4-wire overhead low-voltage distribution line, including all necessary materials, labour, tools, and equipment to complete the works	Km	5.10		
24.8	Supply, transport, and construct a complete 240 V, 2-phase, 3-wire low-voltage overhead distribution line using 100 mm <sup>2</sup> all-aluminium (AA) conductors	Km	1.10		
24.9	Supply, transport, and construct a complete 240 V single-phase, 2-wire low-voltage overhead distribution line using 100 mm <sup>2</sup> all-aluminium (AA) conductors	Km	2.30		
<b>Total Carried Forward to Next Page</b>					

<b>BILL OF QUANTITIES No. 24</b>					
<b>RELOCATION AND PROPOSED NEW ROUTES FOR POWER DISTRIBUTION</b>					
Item No.	Description	Unit	Quantity	Rate	Amount
				KES	KES
<b>Total Brought Forward from Previous Page</b>					
24.10	<b>Supply, Installation, Testing and Commissioning of Distribution Transformers</b>				
	Supply, transport, install, test, and commission oil-immersed, naturally air-cooled (ONAN), three-phase, 50 Hz, 11kV/415V-240V distribution transformers connected in Dyn11 configuration, complete with all accessories and civil/structural works necessary for full and safe operation of the following capacities;The work shall include but not be limited to;				
	i)Delivery of transformers complete with primary (HV) and secondary (LV) bushings, conservator tank, breather with silica gel, thermometer, oil level gauge, nameplate, earthing terminals, and drain/sampling valves.				
	ii)Construction of transformer foundation plinths or pole-mounted platforms, including excavation, reinforced concrete works, steel base frames, and holding-down bolts				
	iii)Installation of HV and LV terminations				
	iv)Earthing system including neutral earthing, tank earthing, and stay earthing using galvanized earth rods, conductors, clamps, and testing for earth resistance.				
	v)Supply and filling of transformer oil meeting IEC/BS standards, including testing of Breakdown Voltage (BDV) before energizing				
	vi)Painting, labeling, and safety signage, including danger plates, phase plates, and transformer identification numbers				
	vii)Coordination with the power utility for switching, connection approval, and energization procedures				
24.10.1	315kVA Transformer 11kV-415V/240V	no.	6.00		
24.10.2	200kVA Transformer 11kV-415V/240V	no.	8.00		
24.10.3	100kVA Transformer 11kV-415V/240V	no.	1.00		
24.11	Carry out all necessary works for the uprating of an existing 50 kVA distribution transformer installation to a 315 kVA	No.	3.00		
24.12	Supply, transport, erect, test, and commission a complete 33 kV overhead power transmission line from Galu Substation (Ukunda) to the proposed SEZ Substation, using 150 mm <sup>2</sup> Aluminium Conductor Steel Reinforced (ACSR) conductors, including all materials, labour, tools, and incidentals necessary to complete the works as per approved drawings and utility standards.	KM	17.90		
<b>Total Carried Forward to Next Page</b>					

BILL OF QUANTITIES No. 24					
RELOCATION AND PROPOSED NEW ROUTES FOR POWER DISTRIBUTION					
Item No.	Description	Unit	Quantity	Rate	Amount
				KES	KES
<b>Total Brought Forward from Previous Page</b>					
24.13	Allow for KES 199,607,244 for Carry out the design, supply, installation, testing, and commissioning of a complete 33kV/11kV outdoor substation rated at 23 MVA, to be constructed on a 1-acre site within the Special Economic Zone (SEZ), in full compliance with Kenya Power (KPLC) design and construction specifications, Kenya Ports Authority (KPA) approvals, and Engineers Board of Kenya (EBK) .Allow for feeders to Resettlement area, DK1 Port and 2 Feeder Extra Unitsprofessional policies for substation works.	Lot	1.00		
	<u>Attendance upon KPLC Engineers</u>				
24.14	Allow a Prime Cost Sum (P.C) of KES 14,500,000 for supervision of the project works by Kenya Power (KPLC) engineers	P.C	1.00		
	<u>Wayleave Acquisition and Coordination by KPLC Engineers</u>				
24.15	Allow a sum of KES 7,000,000 to cover costs associated with Wayleave acquisition, verification, and approval by Kenya Power and Lighting Company (KPLC) Engineers in coordination with the Kenya Ports Authority (KPA) and SEZ Authority for the proposed 33kV/11kV power distribution line within the SEZ	LS	1.00		
	<u>Factory Acceptance Tests (FATs) for Electrical Equipments</u>				
24.16	Allow for the Factory Acceptance Testing (FAT) of all major electrical equipment to be supplied under this Contract, including but not limited to;	LOT	4.00		
	i Transformers				
	ii 11kVLine Disconnectors switches, Concrete Poles				
	iii Circuit Breakers				
	iv Conductors 11kV Line Insulators, Surge Diverters and Overhead line fittings				
	<u>Training and Documentation</u>				
24.17	Allow a Sum of KES 4,500,000 for provision of comprehensive training and documentation for the Employer's staff and authorized representatives (including KPLC Engineers and SEZ technical personnel) on all electrical systems and equipment installed under this Contract	LS	1.00		
24.18	E.O. item 24.13-24.17 for the Main contractor's overheads and profits	%			
<b>Sub Total</b>					
<b>Total Carried Forward to Summary Page</b>					

BILL OF QUANTITIES No. 25					
ENVIRONMENTAL SOCIAL, HEALTH AND SAFETY MANAGEMENT AND MONITORING					
Item No.	Description	Unit	Quantity	Rate	Amount
				KES	KES
<b>A</b>	<b>Environmental Management</b>				
A25.01	Dust suppression on gravel surfaces and haul routes (browsers/sprinklers as directed) including diversions, borrow pits, and working areas, all to the satisfaction of the Engineer and environmental regulations.	Month	12.00		
A25.02	Allow a sum of KES 250,000,000 per month for Erosion & sediment control: silt fences, check dams, sediment traps at drainage crossings/borrow areas.	Month	12.00		
A25.03	Fuel storage area: lined and bunded with 110% capacity; spill kits and drip trays.	LS	1.00		
A25.04	Portable toilets/adequate sanitation at work sites and camps; regular servicing.	Month	12.00		
A25.05	Hazardous waste handling: used oil/filters/grease, temporary storage in sealed containers and disposal via licensed facility.	Month	12.00		
A25.06	Non-Hazardous waste handling: used paper/foodwaste/metal, temporary storage in a designated area and disposal via licensed facility.	Month	12.00		
A25.07	Culvert/side drain protection: inlet/outlet rock riprap or gabions; energy dissipation to prevent scouring.	m <sup>3</sup>	129.00		
A25.08	Noise and vibration control: equipment maintenance, mufflers, and daytime working near settlements.	Month	12.00		
A25.09	<b>Climate Change Mitigation Measures-in line with the Green Port Policy</b>				
	Allow sum of KES 4,550,000 for Roadside and camp greening: tree planting and caring for 3months at disturbed areas (coastal-tolerant species). The Contractor shall give a proposal under this item and measurement and approval shall be done by the Engineer.	LS	1.00		
<b>B</b>	<b>Occupational Health &amp; Safety (OHS) according to OSHA, 2007</b>				
B25.01	Provision of Personal Protective Equipment (PPE): Including boots, helmets, vests, gloves, goggles, masks, ear protection.	Month	12.00		
B25.02	First aid kits and trained first aiders at each active work front.	Month	12.00		
B25.03	Firefighting equipment: extinguishers, sand buckets; inspection and training.	Item	1.00		
B25.04	Trainings and Audits on Safety				
a)	Fire Safety Training	No.	1.00		
b)	Fire Safety Audits	No.	1.00		
c)	First Aid Training	No.	2.00		
d)	First Aid Audits	No.	2.00		
e)	Occupational Safety and Health(OSH) Committee Training	No.	1.00		
f)	Inspection and Servicing of Fire Extinguishers	No.	2.00		
<b>Total Carried Forward to Next Page</b>					<b>0.00</b>

BILL OF QUANTITIES No. 25					
ENVIRONMENTAL SOCIAL, HEALTH AND SAFETY MANAGEMENT AND MONITORING					
Item No.	Description	Unit	Quantity	Rate	Amount
				KES	KES
<b>Total Brought Forward from Previous Page</b>					<b>0.00</b>
B25.05	Work zone safety: signage, cones, barriers, lighting, and reflective tapes.	Month	12.00		
B25.06	Temporary traffic control: flagmen, marshals, and temporary crossings near Schools/sensitive .	Day	300.00		
B25.07	Emergency response plan: drills for spills, accidents, extreme weather, and heat stress.	Month	12.00		
<b>C</b>	<b>Social Management</b>				
C25.01	Allow for a prime cost sum of KShs 6,000,000.00 (six Million) for stakeholder engagement meetings (notices, venues, translation, minutes, and sign-in sheets).	PC sum	1.00		
C25.02	Allow for a prime cost sum of KShs 2,400,000.00 (Two Million four hundred thousand only) for grievance Redress Mechanism (GRM): Including establishment and operation of committees).	PC sum	1.00		
C25.03	Allow for a prime cost sum of KShs 5,000,000.00 (Five Million) for HIV/AIDS & STI awareness and prevention campaign(quarterly).	PC sum	1.00		
C25.04	Provide and maintain Community liaison officer (CLO) with transport/communications.	Month	12.00		
C25.05	Percentage adjustment for profit, administration, attendance upon, overheads, etc. for Items C25.01- C25.04 above	%			
<b>D</b>	<b>E&amp;S Monitoring &amp; Staffing</b>				
D25.01	Provide and Maintain 1No. EHS Officer (full-time) with reporting and logistics.	Month	12.00		
D25.02	Social/GBV focal person (part-time) for grievance and GBV/SEA/SH actions.	Month	12.00		
D25.03	Percentage adjustment for profit, administration, attendance upon, overheads, etc. for Items C25.02 above	%			
D25.04	Environmental monitoring including accredited lab fees.				
a)	Water quality	Days	50.00		
b)	Air(PM10)	Days	50.00		
c)	Noise	Days	50.00		
d)	Effluent/waste water	Days	12.00		
D25.05	Biodiversity/ecosystem monitoring near mangroves.	Days	50.00		
D25.06	Monthly E&S monitoring reports with photos and corrective actions.	Month	12.00		
<b>Total Carried Forward to Next Page</b>					









<b>APPENDIX 2.2: OFFICE FURNITURE AND OFFICE EQUIPMENT NOTE: THE WHOLE OF THIS BILL IS PROVISIONAL</b>					
Item No.	Description	Unit	Quantity	Rate	Amount
				KES	KES
<b>Total Brought Forward from Previous Page</b>					
10.00	Large rectangular conference table approximately 4.0 m × 1.2 m × 0.75 m, top finished in MDF/veneer or hardwood laminate, complete with modesty panel and cable management provisions, together with sixteen (16) high/mid-back upholstered conference chairs with armrests, on swivel/fixed base as specified, finished in fabric/leatherette, lockable and polished	No	1.00		
11.00	Office curtains, made from heavy-duty curtain fabric (polyester or polyester-cotton blend, min. 200–250 gsm), lined with plain white/cream polyester lining to reduce glare and improve durability. Curtains to be full length (floor-to-ceiling or window-sill drop as per site measurements), double-pleated, with hems neatly finished, mounted on 25–32 mm diameter powder-coated aluminium curtain rods/tracks complete with brackets, rings, end caps, runners and all necessary accessories, lock-stitch sewn	Set	1.00		
<b>2. ENGINEER'S OFFICE EQUIPMENT</b> (Ownership to revert to the Employer upon completion of contract.)					
12.00	Electronic scientific calculator, 12 figures	No	6.00		
13.00	Basic Heavy duty Stapling machine Ofrex size 50 or similar with 5000 staples	No	6.00		
14.00	Heavy duty punch and spiral binder, IBICO AG or similar approved	No	2.00		
15.00	Pencil sharpener (desk mounted type) Mounted, with clamp / hand-crank, ABS + steel blade, anti-slip base	No	2.00		
16.00	Heavy - duty 2 hole paper punch	No	2.00		
17.00	Ordinary 2 hole paper punch	No	6.00		
18.00	Occupational First Aid Kit Lockable metal box, 238 medical items	No	2.00		
19.00	9 kg Dry-Powder Fire Extinguisher	No	2.00		
20.00	Filing Tray	No	4.00		
21.00	Waste paper basket	No	4.00		
<b>Total Carried Forward to Next Page</b>					

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<b>APPENDIX 2.2: OFFICE FURNITURE AND OFFICE EQUIPMENT NOTE: THE WHOLE OF THIS BILL IS PROVISIONAL</b>					
Item No.	Description	Unit	Quantity	Rate	Amount
				KES	KES
<b>Total Brought Forward from Previous Page</b>					
21.00	Refrigerator, frost-free type, 250 litres gross capacity; with a Fridge-guard	No	1.00		
22.00	Wall mountable Cupboard 1.08 m <sup>3</sup> lockable	No	2.00		
23.00	Cooker 4 plate electric cooker with oven and grill	No	1.00		
24.00	Water dispenser: Hot and Cold	No	1.00		
25.00	Microwave 20litres	No.	1.00		
26.00	Electric water kettle of capacity 1.5 stainless steel or heat-resistant plastic body	No.	1.00		
27.00	Kitchen utensil i.e. cooking pots, cutlery, plates, cups, glasses, serving spoons, trays, storage containers, dish rack, 2 No. Thermos and associated accessories	LS	1.00		
28.00	Brand new high-performance laptops suitable for engineering and CAD applications in accordance with the Works Specifications and engineer's approval	No.	8.00		
29.00	Portable external hard disks with storage capacity of 2TB	No.	8.00		
30.00	Brand new desktop computer complete with monitor, keyboard, mouse, and UPS in accordance with the Specifications and engineer's approval	No.	2.00		
31.00	Brand new multifunction office printer(A3 capability) in accordance with the Specifications and engineer's approval	No.	1.00		
32.00	Supply, configure, and maintain foldable smartphones for Site Supervision Team (Samsung Galaxy Z Fold 7 or approved equivalent)	No.	8.00		
33.00	Heavy-duty cross-cut paper shredder	No.	2.00		
34.00	Air conditioner unit, medium size	No.	5.00		
35.00	AutoCAD software (latest licensed version, 2025 or current at time of order)	No.	7.00		
36.00	Appropriate Project management software for the project duration including defect liability period in accordance with the Specifications and engineer's approval	No.	6.00		
37.00	Rugged digital camera in accordance with the specification	No.	1.00		
<b>Total Carried Forward to Next Page</b>					





<b>APPENDIX 4: Dispute Avoidance/ Adjudication Board (DAAB)</b>			
<b>Dispute Avoidance/ Adjudication Board (DAAB)</b>			
Allow a Prime Cost sum to cover Employer's obligation to pay DAAB			
Total construction period (months)		12 months	
Total construction period (Years)		1 years	
Defects notification period (months)		12 months	
Number of DAAB members		1 Certified Arbitrators	
Rate per Hour		25,000.00	Kshs.
<b>1. CONSTRUCTION PERIOD</b>			
<b>(a). Monthly retainer fees during construction period</b>			
<b>No. of DAAB Members</b>	<b>Fee (Kshs)</b>	<b>Total fee per month (Kshs)</b>	<b>Total fee for project duration (Kshs)</b>
1	400,000	400,000	4,800,000
<b>(b) Site visit</b>			
Number of sittings per year		3 times a year	
Number of sittings during construction period		3 times/1 years	
Number of working days per site visit		5 days	
Daily allowance for site visit		200,000.00	Kshs.
Site visit expenses per visit (air ticket, accomodatio		500,000.00	Kshs.
Total site visit fee		3,000,000.00	Kshs.
Total site visit expense		1,500,000.00	Kshs.
<b>(c) Referrals</b>			
Assumed number of referrals during construction		3 times	
Total cost of referral fee		3,000,000.00	Kshs.
Total DAAB cost during construction		9,300,000.00	Kshs.
<b>2. DNP</b>			
<b>(a). Monthly retainer fees during DNP</b>			
Monthly allowance		200,000.00	Kshs.
Total monthly allowance		2,400,000.00	Kshs.
Total DAAD cost during construction and DNP		<b>11,700,000.00</b>	Kshs.

