REPUBLIC OF KENYA

TURKANA COUNTY GOVERNMENT

KAKUMA MUNICIPAL BOARD

KENYA URBAN SUPPORT PROGRAMME II (KUSP II)

URBAN DEVELOPMENT GRANT - WORLD BANK

STREET AND PUBLIC SPACES LIGHTING
KAKUMA MUNICIPALITY

TCG/KKM / 09 / 2026-2027

Negotiation Number: 2703775

TENDER DOCUMENT

November, 2026

Solar Street lighting, 155 No. columns - Open national competitive tender

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Section A - Invitation to tender

A.1 Invitation

The Kakuma Municipal Board of Turkana County Government invites sealed tenders from eligible tenderers for the design verification, supply, delivery, installation, testing and commissioning of 155 No. solar powered street lighting columns along the corridors of Kakuma Municipality and the Kalobeyei area. This is Package 1 of two packages. The solar high mast lighting of the public space nodes, and the CCTV monitoring system, are tendered separately under Package 2, GPS-KKM-TD-155, and a tenderer may bid for either package or for both.

Bill	Scope	Locations	Quantity
1	Solar street lighting	Kakuma CBD to Kakuma Mission Hospital; A1 Road to Nayanae Emeyen Village	155 columns

Table A.1 Scope of the works.

A.2 Tender particulars

Item	Particulars
Procuring entity	Kakuma Municipal Board, Turkana County Government
Financier	World Bank, Kenya Urban Support Programme II, Urban Development Grant
Tender number	TCG/KKM/09/2026-2027
Negotiation number	2703775
Procurement method	Open national competitive tendering
Procurement regime	Public Procurement and Asset Disposal Act, 2015 and Regulations 2020
Contract type	Single contract, two Bills of Quantities, administered under the Conditions of Contract at Section C
Tender security	Tender security from a reputable bank guarantee, valid for 150 days
Tender validity	120 days from the date of tender opening
Performance security	10 per cent of the contract sum, by bank guarantee
Contract period	22 weeks from the date of the order to commence
Defects liability period	12 months from the date of taking over
Retention	5 per cent of certified value, half released at taking over
Advance payment	10 per cent against an equivalent advance payment guarantee
Liquidated damages	0.05 per cent of the contract sum per day, capped at 10 per cent

Item	Particulars
Site visit	Mandatory, arranged through the Municipal Board, certificate to be submitted
Price basis	Fixed price, not subject to fluctuation
Currency	Kenya Shillings

Table A.2 Tender particulars.

A.3 obtaining the tender document

The complete tender document may be obtained from the offices of the Kakuma Municipal Board during working hours, or downloaded from the Turkana County Government website and from the Public Procurement Information Portal. Tenderers who download the document shall immediately forward their particulars to the Municipal Board so that any addendum can be issued to them.

A.4 Submission

Tenders shall be submitted in a plain sealed envelope bearing only the tender name and reference and no mark identifying the tenderer, and deposited in the tender box at the offices of the Kakuma Municipal Board on or before the date and time stated in the invitation. Tenders shall be opened immediately thereafter in the presence of tenderers or their representatives who choose to attend. Late tenders shall be rejected unopened. Every page of the submission shall be serialized.

A.5 Clarification and addenda

Requests for clarification shall be submitted in writing not later than seven days before the deadline for submission. Any clarification or addendum shall be issued in writing to all tenderers who obtained the document, and shall form part of it.

Section B - Instructions to tenderers

B.1 Eligibility and statutory qualification

This contract is for the design, supply, installation, testing and commissioning of solar photovoltaic lighting systems and associated civil, structural and electrical works. A tenderer shall hold, in its own name and valid at the date of tender opening, each of the following. Licenses held by an associate, a parent, a sister company or a proposed supplier do not satisfy these requirements except where expressly stated.

#	Requirement	Authority	Evidence
1	Solar photovoltaic system contractor license, Class C1 or Class C2	Energy and Petroleum Regulatory Authority, under the Energy (Solar Photovoltaic Systems) Regulations, 2012	Certified copy of the license, valid at tender opening
2	At least one Class T3 solar photovoltaic system technician in the tenderer's employment	EPRA, reg. 4(3)(c) of the said Regulations	Certified copy of the T3 license, plus a notarized consent letter and proof of employment for not less than twelve months
3	Solar photovoltaic vendor license, Class V1 or Class V2, held by the tenderer or by the vendor through whom the equipment is to be supplied or imported	EPRA, reg. 6(3)(b) and (c)	Certified copy of the license, and where held by a vendor, a signed supply undertaking naming this contract
4	Electrical contractor license, Class C1 or above	EPRA, under the Energy Act, 2019	Certified copy of the license
5	Registration as a contractor in the Electrical Works category, NCA 3 or above	National Construction Authority, under the National Construction Authority Act, 2011	Certified copy of the practicing license for the current year
6	Registration of the key electrical technicians	Kenya Engineering Technology Registration Board, under the Engineering Technology Act, 2016; the Engineers Board of Kenya where the person is a registered engineer	Certified copies of the registration certificates and the current annual practicing licenses
7	Registration of the lead design engineer as a Professional Engineer	Engineers Board of Kenya, under the Engineers Act, 2011	Certified copy of registration and current practicing license
8	Tax compliance, business registration and statutory returns	Kenya Revenue Authority; Registrar of Companies; NSSF; SHA	Valid tax compliance certificate and certificate of incorporation
9	Registration on the Integrated Financial Management Information System supplier database	The National Treasury	Supplier number and registration printout

Notes on the license classes

(a) Class T3 is the highest technician class under the Solar Photovoltaic Systems Regulations and is the only class without a system size limit. Class T1 is restricted to systems up to 100 WP and Class T2 to systems up to 300 Wp. A single all in one luminaire on this contract carries a module and store well above the class limits below. Neither T1 nor T2 is adequate and neither will be accepted.

(b) A Class C1 contractor license requires the holder to be, or to employ, a Class T3 technician. A tenderer offering a C1 license without an identified T3 technician has not met requirement 2 and shall be disqualified.

(c) Classes V1 and V2 are vendor classes. V1 covers the design, distribution, promotion, sale and installation of solar photovoltaic systems; V2 covers their manufacture or import. This contract imports 305 all in one luminaires with their integral modules and lithium iron phosphate batteries. Whoever imports or sells that equipment must hold the appropriate class, and the tenderer shall demonstrate at tender stage where in its supply chain that license sits.

(d) NCA 3 or above is required in Electrical Works. Registration at a higher class is acceptable. The National Construction Authority Regulations limit the value of works a contractor may undertake by class and by sub class, and a tenderer shall satisfy itself that its registration permits it to undertake works of the

value of this Contract. The registration shall be held by the tenderer in its own name and shall be current for the year of tendering.

(e) Engineers register with the Engineers Board of Kenya. Engineering technologists and technicians register with the Kenya Engineering Technology Registration Board established under the Engineering Technology Act, 2016. Evidence shall be submitted from whichever board is correct for the person concerned; a certificate from the wrong board will be treated as no certificate.

B.2 Cost of tendering

The tenderer bears all costs of preparing and submitting its tender and of attending the mandatory site visit. The Employer is not liable for those costs regardless of the conduct or outcome of the process.

B.3 Site visit

The tenderer shall visit and examine the sites of the works and their surroundings and shall satisfy itself as to the nature of the ground, the access, the availability of labour, materials, water and power, and all other matters bearing on the execution of the works. Attendance is mandatory and the site visit certificate, signed and stamped by the Municipal Board, shall be submitted with the tender. A tender submitted without it shall be rejected.

B.4 Content of the tender

The tender shall comprise the Form of Tender, the priced Bills of Quantities, the tender security, the Guaranteed Technical Particulars of Section D completed in full, and every document listed in Section E.1. Documents shall be submitted in the order in which they are listed, indexed and serialized.

B.5 Pricing

The tenderer shall price every item in the Bills of Quantities. An item left unpriced shall be deemed to have been covered elsewhere in the Bills and no claim for it shall be entertained. Rates are deemed to include all labour, plant, materials, transport to site, temporary works, overheads, profit and every obligation under the Conditions of Contract. Where a unit rate and a total price differ, the unit rate prevails.

B.6 Alternatives

Alternative technical proposals are not invited. A tenderer may, in addition to a fully compliant tender, submit an alternative proposal that improves the works without altering the scope, but the compliant tender alone shall be evaluated and any alternative shall be considered only after award and at the discretion of the Employer.

B.7 Confidentiality

Information relating to the examination, evaluation and comparison of tenders shall not be disclosed to tenderers or to any person not officially concerned with the process until notification of award. Any attempt by a tenderer to influence the Employer in the evaluation shall result in the rejection of its tender.

B.8 Award

The contract shall be awarded to the tenderer whose tender has been determined to be the lowest evaluated responsive tender, provided that the tenderer is determined to be qualified to perform the contract satisfactorily. The Employer reserves the right to accept or reject any tender and to annul the process at any time before award without incurring liability.

Section C - Conditions of contract

C.1 General

The contract shall be executed under the conditions of contract for works contained in the standard tender document issued by the National Treasury under the Public Procurement and Asset Disposal Act, 2015, as amended by the particular conditions set out below. Where there is conflict, the particular conditions prevail.

C.2 Particular conditions

Clause	Particular condition
Language and law	English; the laws of Kenya
The Engineer	Gizaa Power Solutions, or such other person as the Employer may appoint
Site possession	Within 14 days of the order to commence
Programme	A detailed programme showing each activity for each Bill shall be submitted within 14 days of the order to commence and updated monthly
Sub-contracting	Not permitted without the written consent of the Employer, and in no case exceeding 20 per cent of the contract sum
Materials on site	Not certified for payment until delivered to site, inspected and secured. No lighting material shall be certified unless it was procured against an LM-79 report approved in writing by the Engineer
Interim certificates	Monthly, minimum certified value KES 5,000,000
Testing	Factory acceptance testing shall be witnessed by the Engineer before shipment. Site acceptance testing shall precede taking over
Training	Not less than 5 working days of training for the Employer's nominated staff before taking over
As built records	As built survey drawings, the asset register and operation and maintenance manuals in triplicate shall be submitted before taking over
Dispute resolution	Adjudication, then arbitration under the Arbitration Act, 1995, seated in Nairobi

Table C.1 Particular conditions of contract.

C.3 Environmental and social obligations

The Contractor shall comply with the Environmental and Social Management Plan for the works and with the environmental and social standards of the financier. The Contractor shall operate a grievance redress mechanism jointly with the Employer, shall source unskilled labour locally from both the host community and the refugee population, shall report the composition of its workforce monthly, and shall comply with the labour and working conditions requirements of the programme. Monthly environmental and social reporting is a condition of interim payment.

C.4 Community engagement and corporate social responsibility

The Contractor shall, within 28 days of the order to commence, submit for the approval of the Engineer a programme of community engagement and corporate social responsibility activity to be undertaken within the areas served by the works, developed in consultation with the Kakuma Municipal Board and with the community structures at each node and corridor.

This obligation is separate from and additional to the Contractor's obligations under the Environmental and Social Management Plan, and performance of one shall not be set against the other.

C.5 Branding and visibility

Every structure shall carry a permanent engraved aluminium plaque of not less than 300 by 200 by 3 millimeters bearing the identities of the Republic of Kenya, the Turkana County Government and the World Bank together with the project particulars, fixed at between 1.5 and 2.0 meters above ground level with tamper resistant fixings. Artwork shall be submitted for the approval of the Engineer before manufacture.

Section D - Specification

D.1 General

The works shall be executed in accordance with this Specification, the drawings, the Bills of Quantities and the standards listed in the Feasibility, Master Plan and Detailed Designs Report. Where standards conflict, the Engineer shall determine which applies. All materials shall comply with the relevant Kenya Bureau of Standards specification where one exists.

The design is complete and is issued for construction. The Contractor is responsible for verifying the photometric design by DIALux simulation using the photometric files of the products actually offered, and for producing shop drawings for the column, the outreach arm, the base flange and the luminaire bracket, before any manufacture is released.

D.1a Approval of lighting materials, LM-79 reporting

No luminaire or photovoltaic module shall be ordered, manufactured or procured until the Contractor has submitted, and the Engineer has approved in writing, an LM-79 photometric test report issued by a laboratory accredited to ISO/IEC 17025 for the exact model to be supplied. The report shall be dated within the preceding twenty four months and shall state the measured luminous flux, the measured input power, the luminous efficacy, the correlated colour temperature, the colour rendering index and the photometric distribution, and shall be accompanied by the corresponding LM-80 report for the LED package and the TM-21 projection of lumen maintenance.

The values in the LM-79 report shall not be less favourable than those entered by the Contractor in the Guaranteed Technical Particulars at Section D.2. Where a reported value is less favourable, the Engineer shall reject the material and the Contractor shall offer a compliant alternative at no additional cost and with no extension of time. The measured input power stated in the LM-79 report is the figure against which the energy design of Section D.4 shall be re verified before manufacture is released.

Lighting material delivered to site without a prior written approval issued against an LM-79 report shall be rejected and removed from site at the Contractor's expense. The Engineer may, at any time before taking over, require a sample drawn at random from the delivered population to be independently tested against the approved report, at the Contractor's cost if the sample fails.

D.2 Guaranteed Technical Particulars

The tenderer shall complete every line of the Guaranteed Technical Particulars below, entering the value offered in the response column and supporting each entry with a manufacturer's datasheet in which the relevant figure is marked. An entry that is not supported by a marked datasheet shall be treated as not offered. Only one datasheet per item of equipment shall be submitted; a submission offering more than one model for the same item shall be declared non responsive.

D.2.1 All in one integrated solar street light, corridor installations

Parameter	Requirement	Offered
Manufacturer and brand	State	
Model number	State	
Rated class	350 W class	
Maintained luminous flux, minimum	8,000 lm	

Parameter	Requirement	Offered
Luminous efficacy, minimum	150 lm/W	
Correlated colour temperature	5,700 K, tolerance 300 K	
Colour rendering index, minimum	70	
Distribution	Full cut off, road optic type II or III	
Ingress protection	IP68 for the complete assembly	
Impact protection	IK08 minimum	
Integral photovoltaic module, minimum	200 Wp, monocrystalline, efficiency not less than 22 per cent	
Integral storage, minimum	1,400 Wh lithium iron phosphate	
Storage cycle life, minimum	5,000 cycles	
Charge controller	MPPT, with temperature compensation	
Control	Programmable burn profile, motion sensing, dusk to dawn	
Monitoring	Remote reporting of state of charge, load status and tamper	
Autonomy	Minimum 2 nights on the specified burn profile	
Overall dimensions and mass	State	
Warranty	Minimum 5 years on the complete unit	
LM-79 report reference and laboratory	State. Accredited to ISO/IEC 17025	
Certification	IEC 61215, IEC 61730, IEC 62133, CE, RoHS	

D.2.2 Street lighting column

Parameter	Requirement	Offered
Manufacturer and brand	State	
Height and outreach	10,000 mm with 1,050 mm single arm	
Cross section	Continuously tapered circular hollow section	
Base and top diameter	194 mm and 76 mm	

Parameter	Requirement	Offered
Wall thickness and grade	5 mm, S275	
Galvanizing	ISO 1461, minimum mean 70 microns	
Base plate	420 x 420 x 20 mm with 4 gussets	
Anchor bolts	4 No. M24 x 950 grade 8.8 on 300 mm PCD	
Door opening	100 x 600 mm at 600 mm, lockable	
Anti-climb collar	Continuously welded at 3,000 mm	
Design standard	BS EN 40-3-1 and 40-3-3	

D.3 Civil and structural works

Concrete shall be class C25/30 to BS EN 206 with a minimum cement content of 320 kilograms per cubic meter. Three cubes shall be cast for each foundation, cured and tested for compressive strength at the nearest Materials Testing and Research Division laboratory, and the certificates shall be submitted before the structure is erected. Reinforcement shall be high yield steel to BS 4449 grade 500B. Blinding shall be 50 millimeters of class C15.

Excavation shall be to the dimensions shown, kept free of water, and inspected by the Engineer before blinding. Anchor bolt cages shall be set on steel templates and their level and orientation shall be checked and recorded before casting. Base plates shall be set on levelling nuts and bedded in vented non shrink grout after the structure has been plumbed.

D.3a Concrete: classes, mix proportions and control

All structural concrete shall be a designed mix to BS EN 206 and BS 8500-2, produced from a weigh-batched plant, delivered with a conformity certificate for each load and verified by cube testing. Volumetric batching by gauge box is permitted only where expressly stated below. The Contractor shall submit trial mix results for each class and each source of aggregate, for the Engineer's approval, not less than twenty-eight days before the first pour.

Concrete classes

Element	Class	Min. cement	Max. w/c	Slump	Cover
Street lighting column base	C25/30	320 kg/m3	0.55	75 ± 25 mm	75 mm
Street lighting column base	C25/30	320 kg/m3	0.55	75 ± 25 mm	50 mm
Blinding beneath all foundations	C15/20	180 kg/m3	0.70	50 ± 25 mm	–
Bollard and plinth infill	C20/25	260 kg/m3	0.60	75 ± 25 mm	40 mm

Cement shall be CEM II/B-L 32, 5 N or CEM I 42, 5 N to KS EAS 18-1. Where the sulphate content of the ground water at any mast position exceeds class DS-2 of BS 8500-1 on test, the Engineer shall instruct a sulphate-resisting cement and the foundation concrete shall be re-classified accordingly.

Nominal mix proportions by volume

The following nominal volumetric proportions are given for the guidance of the Contractor's site staff and for use where volumetric batching is permitted. Proportions are cement : fine aggregate : coarse aggregate, measured in gauge boxes of 300 x 300 x 400 mm, one box being taken as equivalent to one 50 kg bag of cement. Coarse aggregate shall be 20 mm nominal size, clean, angular and free of shale.

Class	Nominal mix	Per 50 kg bag of cement	Cement per m3	Water
C25/30	1 : 1½ : 3	1½ boxes sand, 3 boxes ballast	8 bags (400 kg)	22 to 25 litres
C20/25	1 : 2 : 4	2 boxes sand, 4 boxes ballast	6½ bags (325 kg)	25 to 28 litres
C15/20	1 : 3 : 6	3 boxes sand, 6 boxes ballast	4½ bags (225 kg)	28 to 30 litres

Water quantities are for saturated surface-dry aggregate and shall be reduced by the free moisture carried by the sand, which in Turkana conditions is commonly between two and six per cent by weight. The water-cement ratio tabulated for the class shall not be exceeded under any circumstances, and water shall not be added at the point of placing to recover workability.

Where volumetric batching is and is not permitted

(a) Permitted without further approval for blinding of class C15/20 in any quantity, and for pours of class C20/25 or C25/30 not exceeding 5 m3 in a single operation.

(b) Permitted for the street lighting column bases, each of which contains 2.16 m3 of class C25/30 and falls below the 5 m3 threshold. The Contractor is nonetheless reminded that 305 bases are a production run, not a series of small pours: gauge boxes shall be checked weekly for wear, the batching position shall be under cover from the sun, and a single operative shall be made responsible for batching on each front.

(c) Where the Contractor elects to supply the column bases from a weigh-batched plant instead, that is accepted without further approval and the cube frequency below still applies.

Testing, placing and curing

(a) Cubes shall be taken to KS EAS 139 and BS EN 12390: one set of six 150 mm cubes for every 20 m3 or part thereof of each class placed on any one day, and not less than one set per fifteen column bases. Three cubes shall be crushed at seven days and three at twenty-eight days.

(b) The twenty-eight day characteristic strength shall be attained before any column is erected on the foundation. No erection shall proceed on seven-day results alone.

(c) Concrete shall be placed within thirty minutes of discharge, compacted by immersion vibrator in layers not exceeding 300 mm, and shall not be placed when the ambient shade temperature exceeds 35 degrees Celsius without the Engineer's written approval of hot weather concreting measures.

(d) Curing shall be continuous for not less than seven days by ponding, by hessian kept permanently wet, or by an approved curing membrane. Given the evaporation rates at Kakuma and Kalobeyei, exposed surfaces shall be protected from direct sun and wind for the first twenty-four hours in every case.

(e) Anchor bolt cages shall be set to a template, checked for level and orientation immediately before and immediately after the pour, and shall not be disturbed until the concrete has attained its seven-day strength.

D.4 Earthing and lightning protection

Each structure shall be earthed by 25 by 4 millimeter copper tape run within the shaft to earth electrodes in inspection pits, two electrodes at each mast and one at each column, bonded to the foundation reinforcement. No external run of copper tape is permitted. The measured resistance at each structure shall not exceed 10 ohms and shall be recorded on the test certificate.

D.5 Testing and commissioning

Factory acceptance testing shall be witnessed by the Engineer before shipment and shall cover verification of the output against the approved LM-79 report, photometric output, ingress protection, storage capacity and, for the masts, a full assembly and function test of the carriage, winch and power tool. Site acceptance testing shall cover insulation resistance, earth resistance, controller programming, a full raise and lower cycle of every carriage, and a night time illuminance survey at each node and along each corridor verified against the design.

D.6 Submittals

Ref	Submittal	Timing
T-1	Shop drawings for mast, carriage, head frame, winch and PV platform	Within 21 days of the order to commence
T-2	Structural design calculations for mast, carriage and wire ropes	With the tender and confirmed within 21 days
T-3	DIALux photometric verification for each node and corridor	Before manufacture is released
T-4	Photovoltaic, storage and controller sizing calculations	Before manufacture is released
T-5	Manufacturer's datasheets and test reports for every item	With the tender
T-5a	LM-79 report from an ISO/IEC 17025 accredited laboratory, with LM-80 and TM-21, for every luminaire and photovoltaic module offered	For written approval before any lighting material is ordered or procured
T-6	Manufacturer's authorization and warranty on letterhead	With the tender
T-7	Concrete mix design and cube test certificates	Before each foundation is cast and after testing
T-8	Galvanizing certificates and coating thickness records	On delivery
T-9	Earth resistance and insulation test records	At site acceptance testing
T-10	As built survey drawings, asset register and O and M manuals	Before taking over

Table D.1 Schedule of submittals.

D.7 Knowledge transfer and capacity building

Lighting assets in northern Kenya rarely fail because the equipment was wrong. They fail because nobody left behind knew how to look after them, and because the people who did know had moved on within two years. This contract therefore treats knowledge transfer as a deliverable in its own right, with its own acceptance criteria, its own payment and its own retention, rather than as a day of demonstration at the end of the works.

The Contractor shall develop, submit for approval and deliver a knowledge transfer programme comprising the elements set out below. The programme is authored by the Contractor; the Employer approves it and tests it, but does not write it.

1. Training needs analysis and training plan

Within six weeks of contract signature the Contractor shall carry out a training needs analysis covering the staff the Kakuma Municipal Board will actually assign to these assets, together with any county staff and community custodians nominated by the Board. The analysis shall establish what each group already knows, what tools and transport they have, and what they do not have. On that basis the Contractor shall submit a training plan for the Engineer's approval, stating the curriculum for each group, the duration, the venue, the trainers and their qualifications, the language of delivery and the method of assessment.

2. Operation and maintenance guide

The Contractor shall prepare an illustrated operation and maintenance guide in English and Kiswahili, written for a technician with a craft certificate and not for an engineer. It shall be supplied in twenty bound hard copies, in editable source form and as a PDF, and shall include at least:

(a) Routine maintenance schedules at monthly, quarterly and annual intervals, each as a checklist that can be signed and filed;

(b) module cleaning method and frequency, written for the dust conditions at Kakuma and Kalobeyei, including what must not be used on the glass;

(c) Battery state of health checks, the readings that indicate a cell is failing, and the safe handling and disposal route for lithium iron phosphate batteries;

(d) A fault finding chart in the form of symptom, likely cause, check, action, covering at least the twenty most probable faults;

(e) Torque values, fastener schedules, lubrication points and the galvanizing repair procedure;

(f) A spares list with part numbers, indicative prices, local sources and the re-order level for each item;

(g) The asset register format and the procedure for keeping it current.

3. Filmed procedures

The Contractor shall film each maintenance procedure on site, on the actual assets, with narration in Kiswahili and subtitles in English. The winch lowering and raising sequence, the luminaire replacement, the battery replacement, the module cleaning and the earthing test shall each be filmed in full. The films shall be delivered as individual files of not more than ten minutes each, in a format that plays on an ordinary smartphone without a network connection, and shall be supplied on two USB drives as well as in the project record. The purpose is simple: the person who will need this in three years has not been hired yet.

4. Training delivery

Course	Participants	Duration	Content
Technicians	Up to 10 nominated by the Board	5 days	Full curriculum, classroom and hands on, including at least two supervised carriage lowering and raising cycles per participant and one supervised luminaire change
Custodians and ward staff	Up to 10	2 days	What the assets are, daily and weekly visual checks, how to report a fault, what not to touch, community role in protecting the assets
Monitoring officer	2 nominated by the Board	2 days	CCTV viewing, export and the data protection policy; asset register; performance reporting to the Board

Training shall be delivered at Kakuma, in the month before practical completion, on the installed assets and not on a mock-up. The Contractor shall provide all materials, personal protective equipment for participants, refreshments and participant allowances in accordance with county rates.

5. Assessment and certification

Each participant on the technicians' course shall be assessed by written test and by observed practical task. A participant who fails shall be re-trained and re-assessed once at the Contractor's cost. The Contractor shall issue a certificate of competence to each participant who passes, listing the specific procedures the holder is competent to perform, and shall provide the Board with a register of competent persons.

6. Refresher at six months

At approximately six months after practical completion, within the defects liability period, the Contractor shall return to Kakuma for a two day refresher. The refresher shall address the faults that have actually occurred in service, re-assess any procedure being performed incorrectly, train any staff who have joined since handover, and update the maintenance guide where practice has shown it to be wrong. The Contractor shall submit a short report on the state of the assets and the competence of the staff, and this report is a condition of the release of the final retention.

Acceptance and payment

(a) The knowledge transfer programme is measured as a separate item in each Bill, as that Bill's proportionate share of a single contract-wide obligation.

(b) No part of the item shall be certified until the corresponding deliverable has been accepted in writing by the Engineer.

(c) Practical completion shall not be certified until the guide, the films, the training delivery and the register of competent persons have all been accepted.

(d) Ten per cent of the knowledge transfer item shall be retained until the six month refresher has been delivered and its report accepted.

D.8 Construction programme and work plan

The street lighting works shall be completed within twenty-two weeks of contract signature. The programme below is the Employer's indicative sequence. The Contractor shall submit its own programme in Gantt form within fourteen days of contract signature, showing the same milestones, and shall update it monthly.

The governing constraint

This package needs no heavy lifting plant. A 10 m column weighs little enough to be set with a light truck-mounted crane or a tripod and winch, both of which are available locally. The programme is governed instead by the rate at which civil gangs can turn out column bases: 305 of them, at 155 along the Kakuma corridors and 150 at Kalobeyei. Two gangs work the two areas in parallel, staggered by two weeks so that plant, the batching arrangement and supervision move from one to the other rather than being duplicated. The second constraint is the 28 day cube result, which governs when a column may be stood on its base.

Milestones

Week	Milestone	Condition
2	Site handover	Performance security and insurances in place; corridors handed over and wayleaves confirmed
6	Designs approved	Column structural calculations, LM-79 reports and DIALux verification accepted by the Engineer
18	Bases complete	All 305 column bases cast and cured, cube results accepted
20	Erection complete	All 305 columns erected, earthed and fitted with their luminaires
22	Practical completion	All installations commissioned; illuminance verified along each corridor; knowledge transfer delivered and accepted; as built records issued

Float and the risks that consume it

(a) The two civil fronts are independent. Delay on one does not stop the other, and this is where the float in the programme sits.

(b) Service clearance along the corridors is the principal early risk. The Contractor shall confirm the position of buried services before excavation at every position, and shall allow for hand excavation where a service is suspected.

(c) Market days and the use of the corridors by livestock movements restrict working hours in places. The Contractor shall agree a working calendar with the Municipal Board within the first two weeks.

(d) Rainfall in the April and November seasons can close the access roads for short periods. The Contractor shall allow for this in its own programme; it is a foreseeable condition and is not grounds for extension of time.

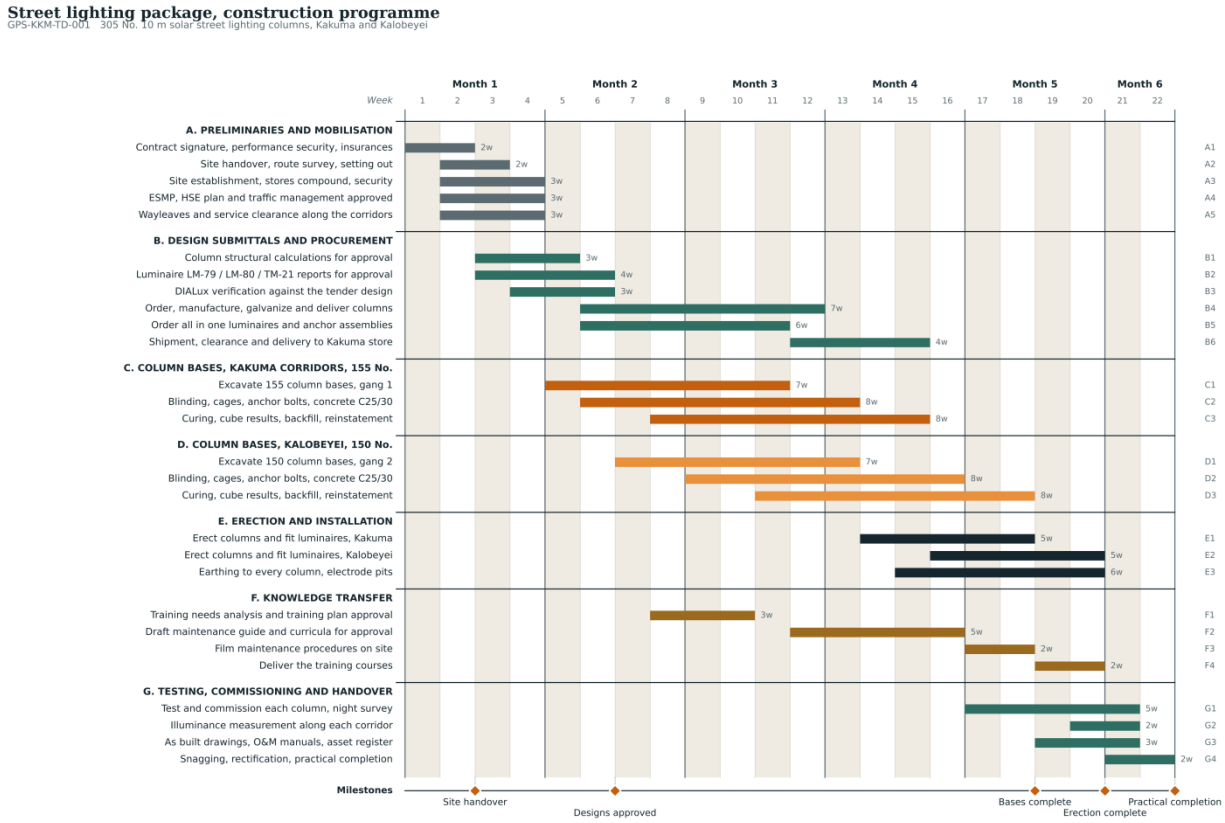


Figure 1 Street lighting package, construction programme, 22 weeks from contract signature.

Section E - Evaluation and qualification criteria

Evaluation proceeds in four stages: preliminary examination for completeness and responsiveness; mandatory eligibility and statutory qualification on a pass or fail basis; technical evaluation scored out of one hundred marks; and financial evaluation of those tenders attaining the technical pass mark. A tender that fails any mandatory requirement shall not proceed to technical evaluation, whatever its technical merit, and a tender scoring less than the pass mark shall not proceed to financial evaluation. Award shall be to the lowest evaluated responsive tender among those that pass the technical stage.

E.1 Preliminary evaluation, mandatory requirements

Each of the following is mandatory. Failure on any one renders the tender non responsive.

No.	Mandatory requirement
1	Duly completed, signed and stamped Form of Tender on the tenderer's letterhead, stating the tender validity period
2	Duly completed, signed and stamped Bills of Quantities with every item priced
3	Valid tender security from a reputable bank guarantee at a cost of Ksh 1,040,000 , valid for 150 days
4	Certificate of incorporation or registration,
5	CR12 or CR13 not more than three months old, certified.
6	Valid KRA PIN certificate with VAT and income tax obligations.
7	A valid tax compliance certificate
8	Valid trade license or business permit for the county of operation
9	Power of attorney commissioned by a Commissioner for Oaths, with specimen signature of the authorized signatory
10	Certificate of independent tender determination, duly signed
11	Self-declaration that the tenderer is not debarred under the Public Procurement and Asset Disposal Act, 2015, commissioned
12	Self-declaration that the tenderer will not engage in corrupt or fraudulent practice, commissioned
13	Declaration and commitment to the code of ethics
14	Duly completed confidential business questionnaire
15	Valid EPRA solar photovoltaic system contractor license in class C1 or C2, with a class T3 technician, and a class V1 or V2 vendor license in the supply chain
16	Valid National Construction Authority registration at NCA 3 or above in Electrical Works
17	Evidence that the registered nature of business is in the renewable energy field, being geothermal, solar or wind, by the objects clause of the CR12 or the category stated on the business permit
18	Audited financial statements for the last two financial years
19	Manufacturer's authorization and warranty on manufacturer's letterhead, signed and stamped, for the masts, luminaires, photovoltaic modules and storage
20	Manufacturer's contact details including a verifiable corporate email address and website. Free webmail addresses are not accepted
21	21 LM-79 photometric test report for the flood module offered, from a laboratory accredited to ISO/IEC 17025, dated within the preceding twenty four months
22	At least three completion certificates from the owners of comparable works undertaken within the last five years
23	Evidence of business premises, workshop and service centre, owned or leased, with a valid lease where applicable

No.	Mandatory requirement
24	Written occupational health and safety policy and evidence of an established safety programme
25	Duly completed site visit certificate, signed and stamped by the Municipal Board
26	All qualification forms duly completed: tenderer information, equipment, personnel, experience and financial position

Table E.1 Mandatory requirements at preliminary evaluation.

E.2 Technical evaluation

Tenders will be evaluated in four stages: preliminary examination for completeness and responsiveness, mandatory eligibility and statutory qualification on a pass or fail basis, technical evaluation scored out of one hundred marks, and financial evaluation of those tenders attaining the technical pass mark. A tenderer failing any mandatory eligibility requirement shall not proceed to technical evaluation, whatever its technical merit.

The technical pass mark is 75 out of 100. The weighting places technical compliance with the Specification and the Guaranteed Technical Particulars above every other criterion. This is deliberate. The dominant failure mode in solar lighting procurement in this region is equipment that does not meet the stated particulars, and it is the particulars, not the methodology statement and not the turnover, that determine whether these assets are still lit in year five.

Criterion	Marks	What is assessed
Technical compliance with the Specification and the Guaranteed Technical Particulars	30	Completed GTP schedules with a bidder response against every line; LM-79, LM-80 and TM-21 reports from an accredited laboratory; IP68 and IK ratings; battery and module datasheets; structural compliance with BS EN 40 and the Eurocodes
Registered nature of business in renewable energy, with statutory licenses in force	20	EPRA solar PV contractor C1 or C2; T3 technician; V1 or V2 in the supply chain; electrical contractor license; NCA 3 or above, Electrical Works; years registered in renewable energy
Experience in similar works	13	Completed solar lighting contracts of comparable value and scope in the last five years, with completion certificates and client references; corridor street lighting experience specifically
Key personnel and their statutory registration	11	Lead design engineer registered with EBK; T3 technician; technicians registered with KETRB; site agent; HSE officer; curricula vitae and certificates
Photometric design verification	8	DIALux or Relux computation reproducing the tender design, demonstrating the specified average illuminance and uniformity at the stated mounting heights and spacings
Knowledge transfer and capacity building proposal	6	Outline training plan, draft guide contents, proposed trainers and their qualifications, approach to filming and to the six month refresher
Financial capacity	6	Audited accounts for three years; average annual turnover; access to credit or liquid assets; absence of adverse litigation
Methodology and work programme	3	Construction methodology, Gantt chart consistent with the 22 week programme, crane mobilization plan, quality plan
Health, safety and environment	3	HSE policy and plan, ESMP compliance approach, working at height procedure, accident record
Total	100	

Scoring and verification

(a) Each criterion is scored on the evidence submitted with the tender. Evidence promised but not submitted scores nil; the Employer will not seek it after opening except as a clarification that does not change the substance of the tender.

(b) Marks under technical compliance are awarded line by line against the Guaranteed Technical Particulars. A blank response, a cross reference without a page number, or a datasheet that does not contain the figure claimed, scores nil for that line.

(c) Photometric test reports shall be from a laboratory accredited to ISO/IEC 17025 for the relevant test. A manufacturer's self-declaration is not a test report.

(d) The Employer reserves the right to verify any license directly with the issuing authority and to verify any completion certificate with the client named, and to disqualify a tenderer whose submission is found to be inaccurate in a material respect.

(e) The lowest evaluated responsive tender from among those attaining the technical pass mark shall be recommended for award, in accordance with section 86 of the Public Procurement and Asset Disposal Act, 2015.

E.3 Financial evaluation

Tenders scoring 75 marks or more at the technical stage shall be examined for arithmetical accuracy, corrected in accordance with the Act, and compared. Award shall be to the lowest evaluated responsive tender. Where the lowest evaluated tender exceeds the Employer's budget, the Employer may negotiate in accordance with section 131 of the Act or may annul the process.

E.4 Post qualification

Before award the Employer may verify any document submitted, may inspect the tenderer's premises, workshop and service centre, may contact the owners of the works for which completion certificates were submitted, and may contact the manufacturers named in the manufacturer's authorizations. A tenderer found to have submitted a false or misleading document shall be disqualified and referred to the Public Procurement Regulatory Authority.

Section F - Drawings and Bills of Quantities

F.1 Drawings

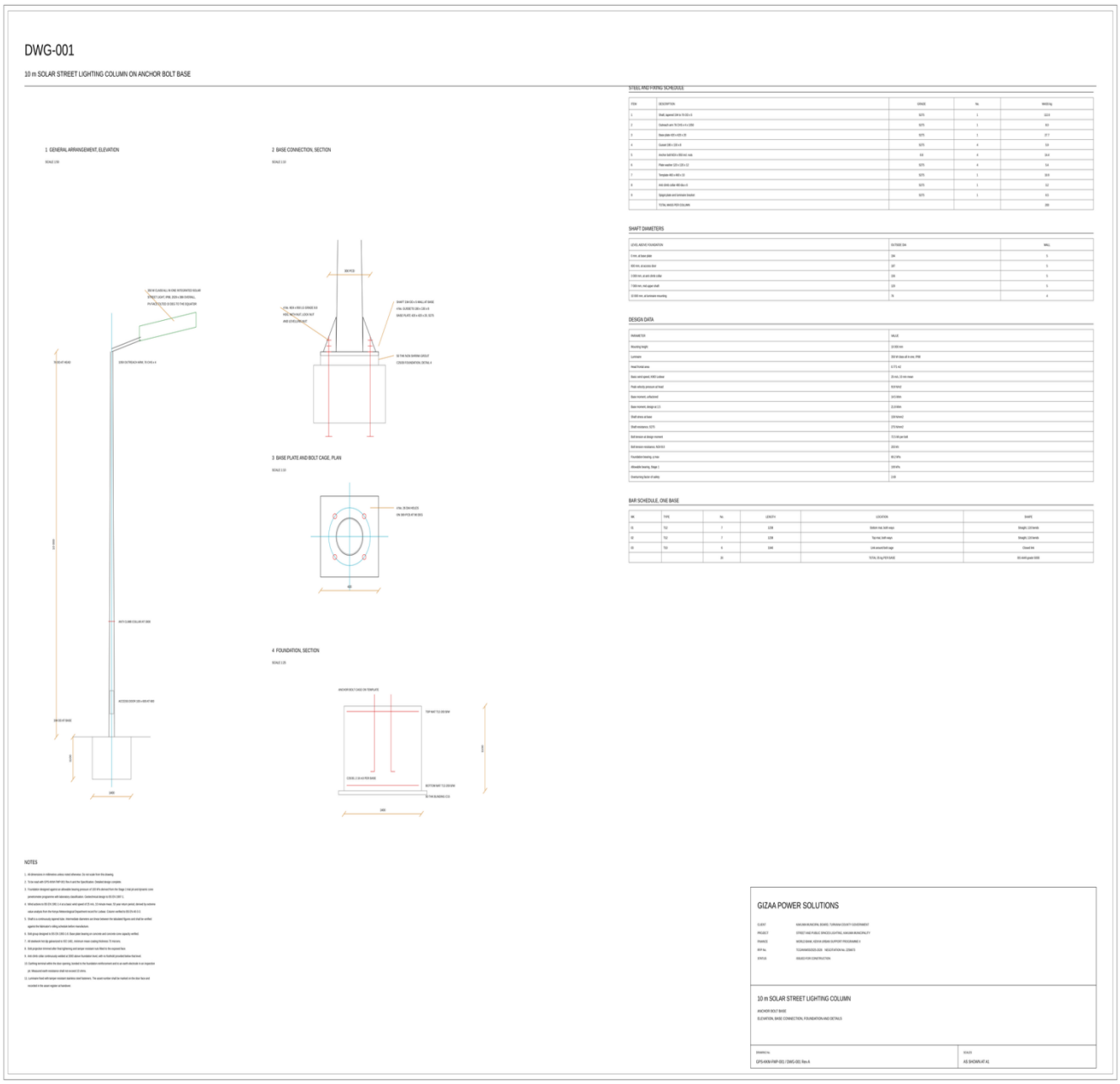
The drawing listed below forms part of this tender document. It is reproduced at reduced size in this Section for the information of tenderers and is issued at full size with the tender document. The high mast drawing, DWG-002, is not part of this package and is issued with Package 2.

Drawing	Title	Status
DWG-001	10 m solar street lighting column on anchor bolt base, general arrangement, base connection, foundation and schedules	Issued for construction

Table F.1 Schedule of drawings.

The drawings are complete and detailed design is finished. The Contractor remains responsible for the shop drawings listed at Section D.6 and for verifying the photometric design before manufacture is released.

F.2 DWG-001 - 10 m solar street lighting column



Section G - Bills of Quantities

The Bills of Quantities, GPS-KKM-BOQ-001, are issued with this document and form part of it. They comprise Bill No. 1 and Bill No. 2 corresponding to the two corridor groups, and a Grand Summary carrying the sum of the two Bills. The tenderer shall price every item and shall carry the Grand Total to the Form of Tender.

KAKUMA MUNICIPALITY STREET AND PUBLIC SPACES LIGHTING
BILL NO. 2
Solar street lighting - Kakuma CBD to Kakuma Mission Hospital, and A1 Road to Nayanae Emeyen Village - 155 No. columns

Item	Description	Unit	Quantity	Rate (KES)	Amount (KES)
A	**PRELIMINARIES AND GENERAL REQUIREMENTS**				
2.01	Allow for the Contractor's site establishment, offices, stores, secure compound, welfare and sanitary facilities, and their removal on completion.	Item	1.00		
2.02	Allow for performance security, insurances of the Works, third party and workmen's compensation for the full Contract Period and Defects Liability Period.	Item	1.00		
2.03	Allow for setting out, survey control, as-built survey drawings and the submission of operation and maintenance manuals in triplicate.	Item	1.00		
2.04	Allow for occupational health and safety provisions, traffic management, signage, barriers and the protection of the public throughout the Works.	Item	1.00		
2.05	Allow for compliance with the Environmental and Social Management Plan, including the grievance redress mechanism and monthly reporting to the Engineer.	Item	1.00		
	Sub total - Preliminaries and general requirements				**-**
B	**SUPPLY AND DELIVERY OF PLANT AND EQUIPMENT**				
2.06	Supply and deliver 350 W class all in one integrated solar street light with monocrystalline photovoltaic module, lithium iron phosphate storage, MPPT controller, motion sensing and programmable dimming, IP68, minimum 8,000 lumens maintained, complete with mounting bracket and tamper resistant fixings.	No	155.00		
2.07	Design, manufacture, hot dip galvanize, supply and deliver 10 m tapered circular hollow section column with 1.05 m single outreach arm, base flange, gussets, lockable access door, anti climb collar at 3.0 m and internal earth terminal.	No	155.00		
2.08	Supply and deliver anchor bolt assembly comprising 4 No. M24 x 950 mm long grade 8.8 hot dip galvanized anchor bolts on 300 mm pitch circle, complete with nuts, lock nuts, plate washers and setting template.	No	155.00		
	Sub total - Supply and delivery of plant and equipment				**-**
C	**CIVIL AND STRUCTURAL WORKS**				

2.09	Excavate for column foundation in any material, including working space, keeping the excavation free of water and disposing of surplus material off site.	m3	388.50		
2.10	50 mm thick blinding in mass concrete class C15 under foundation.	m3	30.00		
2.11	Reinforced concrete class C25/30 in column foundation, 1.4 m x 1.4 m x 1.1 m deep, including formwork to exposed faces and casting in of the anchor bolt cage.	m3	324.00		
2.12	High yield steel reinforcement to BS 4449 grade 500B in foundation, including cutting, bending, tying and spacers.	kg	5,250.00		
2.13	Return, fill and compact selected excavated material around foundation, and reinstate the disturbed surface to match the existing.	m3	34.50		
	Sub total - Civil and structural works				**-**

D	**INSTALLATION, ERECTION, TESTING AND COMMISSIONING**				
2.14	Erect column complete, including all lifting plant, plumbing, grouting the base plate and torqueing the anchor bolts to the specified value.	No	155.00		
2.15	Install earthing comprising 25 x 4 mm copper tape, earth electrode, test clamp and inspection pit, and test to a resistance not exceeding 10 ohms.	No	15.00		
2.16	Supply and fix engraved aluminium branding plaque bearing the Republic of Kenya, Turkana County Government and World Bank identities, fixed with tamper resistant fixings.	No	155.00		
2.17	Test and commission the complete installation, including photometric verification, controller programming to the specified burn profile, and handover to the Employer.	No	155.00		
	Sub total - Installation, erection, testing and commissioning				**-**

E	**KNOWLEDGE TRANSFER AND CAPACITY BUILDING**				
2.18	Allow for this Bill's proportionate share, being 49.18 per cent, of the knowledge transfer and capacity building programme described in the Specification as it applies to the street lighting assets, comprising the training needs analysis and approved training plan, the illustrated operation and maintenance guide in English and Kiswahili in twenty bound copies and in editable form, the filmed maintenance procedures, the five day technicians' course, the two day custodians' course and the two day monitoring officers' course, competence assessment and certification, and the two day refresher at six months after practical completion. Ten per cent of this item is retained until the refresher report is accepted.	Item	1.00		
	Sub total - Knowledge transfer and capacity building				**-**
	GRAND TOTAL				
	Amount in words:				

	Name of Tenderer:				
	Signature and stamp:				
	Date:				

G.1 Summary of the design

The following is provided for the information of tenderers. It does not relieve the tenderer of the obligation to verify the design as required by Section D.1.

Parameter	**10 m solar street lighting column**
Quantity	155 No.
Luminaire	1 x 350 W class all in one
Installed flux per structure	8,000 lm maintained
Average maintained illuminance	10.7 lux on 7 m carriageway
Photovoltaic array	200 Wp integral, minimum
Storage	1,400 Wh integral, minimum
Basic wind speed	25 m/s, 10 minute mean
Base moment, unfactored	14.5 kNm
Base moment, design at 1.5	21.8 kNm
Shaft stress at base	159 N/mm2 against 275
Anchor bolts	4 No. M24 on 300 PCD
Foundation	1.4 x 1.4 x 1.1 m, 2.16 m3
Maximum bearing pressure	60.2 kPa against 100
Overturning factor of safety	2.69

Table G.1 Summary of the detailed design.

G.2 Corridors and quantities

The columns are set out on a 30 meter module along each corridor. The quantities below are the tender quantities and supersede the lengths shown in the Feasibility and Master Plan report, the corridors having been shortened to the Employer's revised budget without any change to the design, the spacing or the specification.

Ref	Corridor	Columns at tender	Length at 30 m spacing
C-01	Kakuma CBD to Kakuma Mission Hospital	90	2,700 m
C-02	A1 Road to Nayanae Emeyen Village	65	1,950 m
	Total	155	4,650 m

Section H - Forms

The forms in this Section shall be completed in full, signed, stamped and submitted with the tender. Each form is presented on a separate page. A form left incomplete, unsigned or unstamped shall render the tender non responsive. Where a form is not applicable the tenderer shall so state and shall give the reason; a blank form shall not be treated as a statement of non-applicability.

Form	Title	Requirement
FT	Form of Tender	Mandatory
TS	Tender Security	Mandatory
CITD	Certificate of Independent Tender Determination	Mandatory
SD-1	Self-Declaration of Non Debarment	Mandatory
SD-2	Self-Declaration Against Corrupt and Fraudulent Practice	Mandatory
CE	Declaration and Commitment to the Code of Ethics	Mandatory
CBQ	Confidential Business Questionnaire	Mandatory
TIF	Tenderer Information Form	Mandatory
LIC	Schedule of Statutory Licenses and Registrations	Mandatory
RNB	Declaration of Registered Nature of Business	Mandatory, scored
EQU	Schedule of Contractor's Equipment	Mandatory
PER	Schedule of Key Personnel	Mandatory
EXP-1	General Construction Experience	Mandatory
EXP-2	Specific Experience in Comparable Works	Mandatory
FIN-1	Financial Position	Mandatory
FIN-2	Average Annual Construction Turnover	Mandatory
FIN-3	Financial Resources and Lines of Credit	Mandatory

Form	Title	Requirement
CON-2	Historical Contract Non Performance and Pending Litigation	Mandatory
MAF	Manufacturer's Authorization Form	Mandatory
MCD	Manufacturer's Contact Details Form	Mandatory
SVC	Site Visit Certificate	Mandatory
BOD	Beneficial Ownership Disclosure Form	Mandatory
PRG	Construction Programme and Methodology	Mandatory
HSE	Health, Safety and Environmental Management Plan	Mandatory

Table H.1 Schedule of forms.

FORM OF TENDER

To: The Chief Officer, Kakuma Municipal Board, Turkana County Government, and P.O. Box Kakuma.

Tender name: Street and Public Spaces Lighting, Kakuma Municipality.

Tender No. TCG/KKM/09/2026-2027. Negotiation No. 2703775.

Having examined the tender document including addenda, and having visited and examined the sites of the works, we the undersigned offer to design, verify, supply, deliver, install, test and commission the whole of the works in conformity with the said tender document for the sum stated below, or such other sum as may be ascertained in accordance with the Conditions of Contract.

TENDER SUM (KES, inclusive of VAT)	
Tender sum in words	

We undertake, if our tender is accepted, to commence and complete the whole of the works within twenty two (22) weeks from the date of the order to commence.

We agree to abide by this tender for a period of one hundred and twenty (120) days from the date fixed for tender opening, and it shall remain binding upon us and may be accepted at any time before the expiry of that period.

We confirm that this tender is not subject to any reservation and that we have not been debarred under the Public Procurement and Asset Disposal Act, 2015.

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory	
Designation	
Signature	
Official stamp of the tenderer	
Date	

FORM TS

TENDER SECURITY - BANK GUARANTEE

To be issued on the letterhead of a bank licensed by the Central Bank of Kenya.

Name and branch of issuing bank	
Guarantee reference number	
Date of issue	
Amount guaranteed (KES)	
Amount in words	
Valid until (150 days from tender opening)	

Whereas.....(The Tenderer) has submitted its tender dated..... For the Street and Public Spaces Lighting, Kakuma Municipality, under Tender No. TCG/KKM/09/2026-2027, we hereby undertake to pay to the Kakuma Municipal Board the sum stated above upon receipt of the Board's first written demand, without the Board having to substantiate its demand, provided that the demand states that the amount claimed is due by reason of the occurrence of any of the following:

(a) The Tenderer withdrew its tender during the period of tender validity;

(b) The Tenderer, having been notified of the acceptance of its tender, failed or refused to execute the Contract Agreement; or

(c) The Tenderer, having been notified of the acceptance of its tender, failed or refused to furnish the performance security.

This guarantee shall remain in force up to and including the date stated above, and any demand in respect of it shall reach us not later than that date.

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized bank official	
Designation	
Signature	
Bank stamp	
Date	

FORM CITD

CERTIFICATE OF INDEPENDENT TENDER DETERMINATION

I, the undersigned, in submitting the accompanying tender for Tender No. TCG/KKM/09/2026-2027, do hereby certify on behalf of the tenderer that:

1. I have read and I understand the contents of this certificate.

2. I understand that the tender will be disqualified if this certificate is found not to be true and complete in every respect.

3. I am authorized by the tenderer to sign this certificate and to submit the accompanying tender on its behalf.

4. For the purposes of this certificate and the accompanying tender, I understand that the word 'competitor' includes any individual or organization, other than the tenderer, that has been requested to submit a tender in response to this invitation, or that could potentially submit such a tender based on its qualifications, abilities or experience.

5. The tenderer discloses that it has arrived at the accompanying tender independently, and without consultation, communication, agreement or arrangement with any competitor, save as disclosed below.

6. In particular, and without limiting the generality of paragraph 5, there has been no consultation, communication, agreement or arrangement with any competitor regarding prices, methods or factors used to calculate prices, the intention or decision to submit or not to submit a tender, or the submission of a tender which does not meet the specifications.

7. The terms of the accompanying tender have not been and will not be knowingly disclosed by the tenderer, directly or indirectly, to any competitor prior to the date and time of tender opening.

Disclosures, if any (state 'NONE' if there are none):

Name of competitor	Nature of consultation, communication, agreement or arrangement

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory	
Designation	
Signature	
Official stamp of the tenderer	
Date	

FORM SD-1

SELF DECLARATION OF NON DEBARMENT

To be commissioned before a Commissioner for Oaths.

Full name of declarant	
National identity card or passport number	
Designation in the tenderer	
Name of tenderer	
Certificate of incorporation number	
Postal and physical address	

I, the person named above, being the person duly authorized by the tenderer named above, do hereby declare that the tenderer:

(a) Is not debarred from participating in public procurement proceedings under Part IV of the Public Procurement and Asset Disposal Act, 2015;

(b) Has not been convicted of a criminal offence relating to professional conduct, the making of false statements or misrepresentation as to its qualifications, or an offence under the Anti-Corruption and Economic Crimes Act, 2003, within the preceding three years;

(C) is not insolvent, in receivership, bankrupt or in the process of being wound up; and

(D) has no director, partner or shareholder who is a member of the board or an employee of the procuring entity, or a relative of such a person, save as disclosed in the Confidential Business Questionnaire.

I make this declaration conscientiously believing the same to be true.

SIGNED FOR AND ON BEHALF OF THE TENDERER

Signature of declarant	
Date	
Commissioner for Oaths, name	
Commissioner for Oaths, signature and stamp	
Date	

FORM SD-2

SELF DECLARATION AGAINST CORRUPT AND FRAUDULENT PRACTICE

To be commissioned before a Commissioner for Oaths.

Full name of declarant	
Designation in the tenderer	
Name of tenderer	

I, the person named above, being the person duly authorized by the tenderer named above, do hereby declare that the tenderer will not engage in any corrupt or fraudulent practice, and has not been requested to pay any inducement to any member of the board, management, staff or employees or agent of the Kakuma Municipal Board, which is the procuring entity.

The tenderer will not engage in any collusive practice with any other tenderer, and further declares that no person acting for or on its behalf has engaged or will engage in any collusive practice.

The tenderer will not accept any inducement from any person, and will not engage in any coercive practice.

The tenderer will not engage in any obstructive practice, and undertakes to permit the Public Procurement Regulatory Authority and any other lawful authority to inspect its accounts and records relating to this procurement.

I understand that this declaration forms part of the tender, and that a breach of it entitles the procuring entity to reject the tender, to terminate any resulting contract, and to refer the matter to the Public Procurement Regulatory Authority and to the Ethics and Anti-Corruption Commission.

I make this declaration conscientiously believing the same to be true.

SIGNED FOR AND ON BEHALF OF THE TENDERER

Signature of declarant	
Date	
Commissioner for Oaths, name	
Commissioner for Oaths, signature and stamp	
Date	

FORM CE

DECLARATION AND COMMITMENT TO THE CODE OF ETHICS

We, the undersigned, declare that we have read and understood the Code of Ethics for Persons Participating in Public Procurement and Asset Disposal issued by the Public Procurement Regulatory Authority, and we commit to abide by it in all our dealings with the Kakuma Municipal Board.

In particular we commit that we shall:

(a) Conduct ourselves with integrity, impartiality and professionalism throughout the procurement process and the performance of any resulting contract;

(b) Not offer, give, solicit or accept any inducement, gift, favour or hospitality intended to influence any decision in this procurement;

(c) Declare without delay any actual, potential or perceived conflict of interest;

(d) Not misrepresent our qualifications, capacity, experience or the origin or specification of any goods offered;

(e) Maintain the confidentiality of information received in the course of this procurement; and

(f) Report to the Public Procurement Regulatory Authority any unethical conduct that comes to our knowledge.

Details of the person responsible for ethics compliance within our organization:

Name	
Designation	
Telephone	
Email address	

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory	
Designation	
Signature	
Official stamp of the tenderer	
Date	

FORM CBQ

CONFIDENTIAL BUSINESS QUESTIONNAIRE

Part 1 - General

Name of tenderer	
Postal address	
Physical address and county	
Telephone and email	
Nature of business	
Certificate of incorporation or registration number	
Date of incorporation or registration	
KRA PIN	

Part 2 - Ownership. Complete the section applicable to the tenderer.

Name of director, partner or shareholder	Nationality	Identity or passport number	Percentage shareholding

Part 3 - Conflict of interest

State whether any director, partner, shareholder or employee of the tenderer is a member of the board, an employee or an agent of the Kakuma Municipal Board or Turkana County Government, or a relative of such a person. State 'NONE' if not applicable.

Name	Relationship or position held

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory	
Designation	
Signature	
Official stamp of the tenderer	
Date	

FORM TIF

TENDERER INFORMATION FORM

Legal name of tenderer	
Trading name, if different	
Country of registration	
Year of registration	
Legal form (limited company, partnership, sole proprietorship)	
Registered office address	
Physical address of business premises	
Physical address of workshop and service centre	
Name of authorized representative	
Designation	
Telephone	
Email address	
Bank name, branch and account number	

Attached to this form:

(a) Certificate of incorporation or registration; (b) CR12 or CR13 not more than three months old; (c) KRA PIN certificate; (d) valid tax compliance certificate; (e) trade license or business permit; (f) power of attorney; (g) evidence of business premises and workshop, owned or leased.

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory	
Designation	
Signature	
Official stamp of the tenderer	
Date	

FORM LIC

SCHEDULE OF STATUTORY LICENCES AND REGISTRATIONS

Attach a certified copy of each license or certificate listed. A license that has expired or that expires before the end of the tender validity period shall not be accepted.

License or registration	Class or category	Number	Issuing authority	Date of issue	Expiry date

The following are mandatory and shall be listed above:

(a) Energy and Petroleum Regulatory Authority solar photovoltaic system contractor license in class C1 or C2, and electrical contractor license in class C1 or above;

(b) Energy and Petroleum Regulatory Authority solar photovoltaic technician license at class T3, held by at least one member of the proposed team, and a class V1 or V2 vendor license held by the tenderer or by the vendor through whom the equipment is supplied or imported;

(c) National Construction Authority registration at NCA 3 or above in Electrical Works;

(d) Engineers Board of Kenya registration of the lead design engineer, and Kenya Engineering Technology Registration Board registration of each key technician;

(e) Valid trade license or business permit for the county of operation;

(f) Directorate of Occupational Safety and Health Services workplace registration.

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory	
Designation	
Signature	
Official stamp of the tenderer	

Date	

FORM RNB

DECLARATION OF REGISTERED NATURE OF BUSINESS

This form is scored under Criterion 1 of the technical evaluation and carries 25 of the 100 available marks. Each attribute claimed shall be supported by the evidence stated. An attribute not evidenced shall not be scored.

Attribute claimed	Yes or No	Evidence attached and page reference

Attribute	Yes / No	Evidence attached, page reference
Registered objects expressly include the generation, supply or installation of renewable energy in geothermal, solar or wind		
EPRA solar photovoltaic system contractor license in class C1 or C2 held continuously for not less than three years		
Renewable energy works constitute the majority of turnover in each of the last two financial years		
Dedicated renewable energy technical department with not fewer than three qualified staff in continuous employment		

Statement of the tenderer's renewable energy activity

State the field or fields of renewable energy in which the tenderer is registered and active, the year in which that activity commenced, and the proportion of turnover derived from it in each of the last two financial years.

Financial year	Total turnover (KES)	Renewable energy turnover (KES)	Percentage

Renewable energy technical department

Name of staff member	Qualification	Role	Years in continuous employment

We declare that the information given above is true and complete, and we accept that a false or misleading statement shall result in disqualification and referral to the Public Procurement Regulatory Authority.

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory	
Designation	
Signature	
Official stamp of the tenderer	
Date	

FORM EQU

SCHEDULE OF CONTRACTOR'S EQUIPMENT

List the equipment the tenderer proposes to deploy on the works. State for each item whether it is owned, leased or to be purchased, and attach evidence of ownership or of the leasing arrangement.

Item of equipment	Make and model	Capacity or rating	Year	Owned / leased / to be purchased	Location

The following are required as a minimum for this contract:

Mobile crane of not less than 25 tonne capacity with a working height exceeding 26 meters; concrete mixer or batching plant; poker vibrators; excavator or backhoe; dewatering pump; compaction plant; delivery vehicle capable of carrying 9 meter mast sections; insulation resistance tester; earth resistance tester; illuminance meter; torque wrenches to the specified range.

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory	
Designation	
Signature	
Official stamp of the tenderer	
Date	

FORM PER

SCHEDULE OF KEY PERSONNEL

List the key personnel proposed for the works. Attach a signed curriculum vitae and certified copies of academic certificates and professional registrations for each person named.

Position	Name	Qualification	Registration or license number	Years of relevant experience

The following positions are required as a minimum:

(a) Project Supervisor: degree in electrical or mechanical engineering, registered with the Engineers Board of Kenya, not less than five years relevant experience;

(b) Two technicians: diploma in electrical or mechanical engineering, not less than two years relevant experience each;

(c) At least one team member holding a valid EPRA solar photovoltaic technician license at class T3 or above;

(d) Site safety officer with a recognized occupational safety qualification;

(e) Environmental and social officer.

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory	
Designation	
Signature	
Official stamp of the tenderer	
Date	

FORM EXP-1

GENERAL CONSTRUCTION EXPERIENCE

List all contracts of a similar nature completed by the tenderer in the last five years. Attach a completion certificate issued by the owner for each contract listed.

Contract name and reference	Employer and contact	Value (KES)	Role	Start date	Completion date

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory	
Designation	
Signature	
Official stamp of the tenderer	
Date	

FORM EXP-2

SPECIFIC EXPERIENCE IN COMPARABLE WORKS

Complete a separate block for each contract relied upon under Criterion 3 of the technical evaluation. At least three contracts of value not less than KES 35 million each are required, of which at least one shall have included not fewer than 100 solar street lighting columns and at least one shall have been executed in an arid or semi-arid county of Kenya.

Item	Particulars
Contract name and reference	
Employer, address and contact person	
Telephone and email of contact person	
Contract value (KES)	
Date of commencement	
Date of completion	
Quantity of solar street lights	
Quantity of solar street lights	
County in which executed	
Completion certificate attached, page reference	

Repeat this block for each contract. Photographs of the completed works may be attached in support.

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory	
Designation	
Signature	
Official stamp of the tenderer	
Date	

FORM FIN-1

FINANCIAL POSITION

Complete from the audited financial statements for the last two financial years. Attach the audited statements, signed by a certified public accountant in good standing.

Item (KES)	Year 1	Year 2
Item (KES)	**Most recent year**	**Preceding year**
Financial year ended		
Total assets		
Total liabilities		
Net worth		
Current assets		
Current liabilities		
Working capital		
Total revenue		
Profit before tax		

Name and registration number of the auditor:

Name of audit firm	
ICPAK registration number	
Date of audit report	

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory	
Designation	
Signature	
Official stamp of the tenderer	
Date	

FORM FIN-2

AVERAGE ANNUAL CONSTRUCTION TURNOVER

State the annual turnover from construction and installation works for each of the last two financial years. The required minimum average annual turnover for this contract is KES 110 million.

Year	Amount (KES)	Exchange rate, if applicable	KES equivalent
Average annual turnover			

Breakdown of turnover by activity

This breakdown is used in the assessment of Criterion 1 of the technical evaluation. It shall be certified by the tenderer's auditor.

Activity	Most recent year (KES)	Preceding year (KES)	Percentage of total

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory	
Designation	
Signature	
Official stamp of the tenderer	
Date	

FORM FIN-3

FINANCIAL RESOURCES AND LINES OF CREDIT

State the financial resources available to the tenderer for this contract, net of commitments under other contracts. Attach bank certification not more than three months old for each source stated. The required minimum is KES 40 million.

Source of financing	Name of bank or institution	Amount (KES)	Evidence attached, page reference

Current contract commitments

Contract name	Employer	Value outstanding (KES)	Expected completion date

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory	
Designation	
Signature	
Official stamp of the tenderer	
Date	

FORM CON-2

HISTORICAL CONTRACT NON PERFORMANCE AND PENDING LITIGATION

Part 1 - Contract non performance

State whether any contract has been terminated, or performance security called, or damages levied against the tenderer in the last five years. State 'NONE' if not applicable.

Year	Contract name and employer	Value (KES)	Nature of non-performance

Part 2 - Pending litigation

State all pending litigation involving the tenderer. Pending litigation exceeding 10 per cent of net worth shall be assessed under Criterion 5. State 'NONE' if not applicable.

Year	Matter and court reference	Amount in dispute (KES)	Percentage of net worth	Status

We declare that the information given above is true and complete.

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory	
Designation	
Signature	
Official stamp of the tenderer	
Date	

FORM MAF

MANUFACTURER'S AUTHORISATION FORM

To be issued on the letterhead of the manufacturer, signed by a person with authority to bind the manufacturer, and stamped. A separate form is required for the all in one street light, for the street lighting column and for the integral storage. A form issued by a distributor, agent or trading company is not acceptable unless the manufacturer confirms the authority in writing.

Name of manufacturer	
Country of manufacture	
Item authorized	
Model number offered	
Name of tenderer authorized	

We, the manufacturer named above, being an established manufacturer of the item stated, do hereby authorize the tenderer named above to submit a tender for, and subsequently to supply and install, the goods manufactured by us in connection with Tender No. TCG/KKM/09/2026-2027.

We hereby extend our full guarantee and warranty on the goods offered for the period stated in the Specification, and we confirm that we will make spare parts and technical support available to the Employer for a period of not less than ten years from the date of delivery.

We confirm that the technical particulars entered by the tenderer in Section D of the tender document in respect of our product are accurate and are supported by our published datasheets and test reports.

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory of the manufacturer	
Designation	
Signature	
Manufacturer's stamp	
Date	

FORM MCD

MANUFACTURER'S CONTACT DETAILS FORM

Complete one row for each manufacturer whose product is offered. The Employer will contact each manufacturer directly during post qualification. A free webmail address, including but not limited to Gmail, Yahoo, Hotmail and Outlook, shall not be accepted; the email address given shall be on the manufacturer's own domain and shall match the website stated.

Item offered	Manufacturer	Corporate email address	Website	Telephone	Contact person

We confirm that the contact details given above are current, that the persons named are authorized to confirm our authorization and the technical particulars of the products offered, and that we consent to the Employer contacting them directly.

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory	
Designation	
Signature	
Official stamp of the tenderer	
Date	

FORM SVC

SITE VISIT CERTIFICATE

Attendance at the site visit is mandatory. A tender submitted without this certificate, duly signed and stamped by the Kakuma Municipal Board, shall be rejected.

Name of tenderer	
Name of representative attending	
Designation	
National identity card number	
Telephone	
Date of site visit	

Sites visited

Tick	Site	Project
	Somali Market	1
	Hong Kong Market	1
	Burundi Market	1
	Slaughter House	2
	Nayanae Emeyen Village	2
	Lokitoe Ngisikiria Market	2
	Kakuma CBD to Kakuma Mission Hospital corridor	3
	A1 Road to Nayanae Emeyen Village corridor	3
	Kalobeyei Host Community corridor	4
	Kalobeyei Settlement corridor	4

This is to certify that the representative named above visited and examined the sites listed and was afforded the opportunity to examine the nature of the ground, the access and all matters bearing on the execution of the works.

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of Municipal Board officer	

Designation	
Signature	
Official stamp of the Kakuma Municipal Board	
Date	

FORM BOD

BENEFICIAL OWNERSHIP DISCLOSURE FORM

Disclosure is required under section 31A of the Public Procurement and Asset Disposal Act, 2015 and the Companies (Beneficial Ownership Information) Regulations, 2020. Disclose every natural person who ultimately owns or controls the tenderer, whether directly or indirectly.

Full name	Nationality	Identity or passport number	Nature of ownership or control	Percentage held	Date acquired

Where ownership is held through another body corporate, disclose the chain of ownership until the natural persons at the end of it are identified.

Intermediate entity	Registration number	Country	Percentage held

We declare that the disclosure above is complete and accurate, and we undertake to notify the Employer of any change during the currency of any contract awarded.

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory	
Designation	
Signature	
Official stamp of the tenderer	
Date	

FORM PRG

CONSTRUCTION PROGRAMME AND METHODOLOGY

Attach a bar chart programme showing every activity for each Bill separately, within the contract period stated in the Tender Particulars. Summarise the key dates below.

Activity	Project	Start week	Finish week
Mobilization and submittals	All		
Manufacture and factory testing	All		
Delivery to site	All		
Mast foundations	1 and 2		
Mast erection and rigging	1 and 2		
Column foundations, Kakuma	3		
Column erection, Kakuma	3		
Column foundations, Kalobeyei	4		
Column erection, Kalobeyei	4		
Testing and commissioning	All		
Training	All		
As built records and handover	All		

Attach a method statement addressing mobilization to Turkana West, delivery of 9 meter mast sections, lifting operations, the sequence of slip joint assembly, working at height, and the management of trading activity at the market nodes during construction.

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory	
Designation	
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Official stamp of the tenderer	
Date	

FORM HSE

HEALTH, SAFETY AND ENVIRONMENTAL MANAGEMENT PLAN

Summarise the tenderer's health, safety and environmental arrangements for this contract and attach the project specific plan and the tenderer's written policy.

Name of proposed site safety officer	
Qualification and registration	
Name of proposed environmental and social officer	
Qualification	
DOSHS workplace registration number	
Workmen's compensation policy number and insurer	
Public liability policy number and insurer	

ENVIRONMENTAL AND SOCIAL MANAGEMENT AND MONITORING PLAN FOR THE PROPOSED STREETLIGHTING AND HIGH MAST PROJECT

Project Phase	**Environmental/ Social Aspect**	**Potential Impact**	**Mitigation Measures**	**Monitoring Indicators**	**Responsibility**	**Estimated Cost (KES)**
Pre-Installation/ Installation	Community awareness and stakeholder Engagement/training	Lack of project understanding and public concerns	Conduct stakeholder consultations and disclose project information to affected communities and institutions	Consultation records, attendance lists, stakeholder feedback	Kakuma Municipality, Contractor Supervision consultants	
Pre-Installation/ Installation	Site selection and design	Encroachment on utilities or public infrastructure	Verify utility locations and confirm light pole positions	Approved designs and site verification reports	, Contractor Supervision consultants	

			before installation			
Installation/ Installation	Vegetation disturbance	Minor loss of grass and roadside vegetation	Limit excavation footprint and restore disturbed areas after installation	Number of restored sites	Contractor Supervision consultants	
Construction / Installation	Dust generation	Localized air quality deterioration	Sprinkle water on excavation points where necessary and cover transported materials	Dust complaints, site inspections	Contractor Supervision consultants	
Construction / Installation	Noise generation	Temporary disturbance to nearby residents, schools and businesses	Restrict works to daytime hours and maintain equipment properly	Noise complaints received	Contractor Supervision consultants	
Construction / Installation	Excavation waste and packaging materials	Increased solid waste generation	Collect, segregate and dispose waste at approved disposal sites; recycle where possible	Waste disposal records	Contractor Supervision consultants	
Construction / Installation	Occupational health and safety	Injuries to workers during excavation, pole erection and electrical works	Provide PPE, safety training, first aid kits and supervision of works	PPE usage, accident records	Contractor Supervision consultants	

Construction / Installation	Public safety risks	Injuries to pedestrians and motorists near work sites	Install warning signs, barriers and traffic management measures	Presence of signage and barriers	Contractor Supervision consultants	
Construction / Installation	Traffic disruption	Temporary inconvenience along the road corridor	Schedule works in sections and maintains access for pedestrians and vehicles	Traffic management records	Contractor Supervision consultants	
Construction / Installation	Labour influx and social concerns	Potential conflicts, GBV, SEA/SH risks	Prioritize local labour, enforce workers' code of conduct, conduct awareness programs	Number of grievances reported	Contractor, Municipality	
Construction / Installation	Electrical installation activities	Risk of electrocution during installation	Ensure work is undertaken by qualified technicians and comply with electrical safety standards	Safety inspection reports	Contractor Supervision consultants	
C-ESMP						

Confirm by ticking that the attached plan addresses each of the following:

Tick	Requirement
	Hazard identification and risk assessment for lifting, working at height and excavation
	Personal protective equipment issue and enforcement

Tick	Requirement
	Traffic management, signage and barriers at open excavations
	Dust suppression and control of excavated material
	Handling, transport and disposal of lithium iron phosphate storage under a documented chain of custody
	Grievance redress mechanism operated jointly with the Employer
	Local labour sourcing from both the host community and the refugee population, with monthly reporting
	Emergency response and first aid arrangements, including evacuation from Turkana West
	Monthly environmental and social reporting to the Engineer

SIGNED FOR AND ON BEHALF OF THE TENDERER

Name of authorized signatory	
Designation	
Signature	
Official stamp of the tenderer	
Date	