



KAVANGO EAST REGIONAL COUNCIL

Request for Quotations for Works

Supply, Delivery and Installation of Streetlights on the Trunk Road (B8) at Ndiyona - Kavango East Region

Procurement Reference No: **W/RFQ-KERC/005/2024/2025**

Document Issued: 13 February 2025

Compulsory Site Visit: 18 February 2025

Closing Date & Time: 25 February 2025 @11H00

Name of Bidder: _____

Contact Number of Bidder: _____

E-mail Address of Bidder: _____

Authorized Representative: _____

Bid Amount : N\$ _____
(From Summary Bill of Quantities, Inclusive of VAT)

*The head of:
Procurement Management Unit
Kavango East Regional Council
E-mail: jkangumber@kavangorc.gov.na
Private Bag 2124, Rundu*

*Tel: +264 66 266 000
Fax: +264 65 240 453*



KAVANGO EAST REGIONAL COUNCIL

Tel: +264 66 266 000

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Email: jtoloshi@kavangorc.gov.na

Private Bag 2124
RUNDU

Letter of Invitation

13 February 2025

Dear Prospective bidders

Supply, delivery and Installation of Streetlights on the Trunk Road (B8) at Ndiyona - Kavango East Region


The Kavango East Regional Council invites you to submit your best quote for the works described in detail hereunder.

Any resulting contract shall be subject to the terms and conditions referred to in the document.

Queries, if any, should be addressed to Kavango East Regional Council, Mr. Kudumo Ansfried, Tel: +264 66 266000, for administrative issues and Mr Jonas Toloshi; Tel: +264 66 266 000 on technical issues.

Please prepare and submit your quotation in accordance with the instructions given or inform the undersigned if you will not be submitting a quotation. Please prepare and submit your quotation by the instructions given or inform the undersigned if you will not be submitting a quotation.

Yours faithfully,


13/02/2025
Mr. J M Kangumbe
Head of Procurement Management Unit
Kavango East Regional Council



BIDDING DOCUMENT

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SECTION I: INSTRUCTIONS TO BIDDERS

1. Rights of Public Entity

The **Kavango East Regional Council** reserves the right:

- (a) to split the contract as per the lowest evaluated cost per lot; and
- (b) to accept or reject any quotation or to cancel the quotation process and reject all quotations at any time before the contract award.

2. Preparation of Quotations

You are requested to quote for the works mentioned in Section III, by completing, signing, and returning:

- (a) the Quotation Letter in Section II with its annexe for Bid Securing Declaration, where applicable;
- (b) the Priced Activity Schedule in Section IV;
- (c) the Specifications and Compliance Sheet in Section V; and
- (d) any other attachment as deemed appropriate

You are advised to carefully read the complete Request for Quotations document, including the Special Conditions of Contract in Section VII, before preparing your Quotation. The standard forms in this document may be retyped for completion but the Bidder is responsible for their accurate reproduction.

3. Validity of Quotations

The quotation validity period shall be **90 days** from the date of the bid submission deadline.

4. Eligibility Criteria

To be eligible to participate in this Quotation exercise, you should:

- (a) Have a valid certified copy of **Company Registration Certificate**;
- (b) Have an original valid **Good Standing Certificate with NAMRA**;
- (c) Have a valid certified copy of **BIPA Good Standing**
- (d) Have an original valid **Good Standing Certificate with the Social Security commission**;
- (e) have a valid certified copy of **Affirmative Action Compliance Certificate** or proof from **Employment Equity Commissioner** that bidder is not a relevant employer, or **exemption** issued in terms of Section 42 of the Affirmative Action Act, 1998;
- (f) Submit complete signed and stamped **Bid-securing Declaration**;
- (g) Complete and signed **Quotation Letter**; See ITB2. (Appendix to Quotation Letter – A);
- (h) Submit table of experience and reference contacts (Appendix to Quotation Letter – B)

- (i) Submit table of proposed key personnel (Appendix to Quotation Letter – C)
- (j) Submit Company Profile
- (k) Submit work Program indicating **duration and deliverable milestones**
- (l) Submit a **valid NORED/NAMPOWER License** to operate on their network
(Must be registered on the company name)

Additional requirements

- Document to be filled/completed with black ink.
- All pages of the bidding document must be initialled.
- All correction must be initialled.
- No eraser (Tippex) to be used.
- No correction to the original Bill of Quantities is allowed.
- Use of Government envelop will lead to disqualification.

5. Bid Security/Bid Securing Declaration

Bidders are required to submit a Bid Securing Declaration for this procurement process.

6. Works Completion Period

The completion period for works shall be **3 Calendar Months** after acceptance and issue of Purchase Order. Deviation in the completion period shall not be accepted.

7. Sealing and Marking of Quotations

Quotations should be sealed in a single envelope, clearly marked with the Procurement Reference Number, addressed to the Public Entity with the Bidder's name at the back of the envelope.

8. Submission of Quotations

Quotations should be deposited in the Quotation/Bid Box located at **Office No 19** not later than **Friday, 25 February 2025 by 11H00**. Quotations by post or hand delivered should reach Private Bag 2124 Rundu, Maria Mwengere Street by the same date and time at latest. Late quotations will be rejected.

Quotations received by e-mail will not be considered

9. Compulsory Pre-Bid Meeting

A Compulsory pre-bit meeting has been scheduled for:

Date: 18 February 2025

Time: 11H00

Venue: Ndiyona Settlement Office

Briefing will take place at the Ndiyona Settlement Office where after everyone will depart to the site.

Contractors advised to not leave the meeting without their **Certificate of Attendance signed.**

10. Opening of Quotations

Quotations will be opened internally by the Public Entity immediately after the closing time referred to in section 8 above. A record of the Quotation Opening stating the name of the bidders, the amount quoted, the presence or absence of a Bid Securing Declaration will be posted on the website of the Public Entity and available to any bidder on request within seven calendar days of the Opening.

11. Evaluation of Quotations

The Public Entity shall have the right to request clarifications in writing during evaluation. Substantially responsive offers shall be compared based on evaluated cost, subject to Margin of Preference where applicable, to determine the lowest evaluated quotation.

12. Technical Compliance

Bidders shall submit along with their quotations documents, catalogues and any other literature to substantiate compliance with the required specifications and to qualify deviations if any with respect to Public Entity's requirements.

The Specifications, Performance Requirements and Compliance Sheet details the minimum specifications of the goods/items to be supplied. The specifications have to be met but no credit will be given for exceeding the specifications.

13. Prices and Currency of Payment

Prices for the execution of works shall be fixed in Namibian Dollars as quoted. Quotations shall cover all costs of labour, materials, equipment, overheads, profits, and all associated costs for performing the works, and shall include all duties. The whole cost of performing the works shall be included in the items stated, and the cost of any incidental works shall be deemed to be included in the prices quoted.

14. Margin of Preference

Preference will be given to bidders whose total bid price falls within $\pm 5\%$ of the budgeted cost estimate.

15. Award of Contract

The Bidder having submitted the lowest evaluated responsive quotation and qualified to perform the works shall be selected for award of contract. Award of the contract shall be by the issue of **Letter of Acceptance** by terms and conditions contained in Section VI: Contract Agreement and General Conditions of Contract.

16. Performance Security

The successful bidder shall upon acceptance of its offer submit a Performance Security as per the format contained in the Schedule for an amount of **10 %** of the contract price.

17. Notification of Award and Debriefing

The Public Entity shall after awarding of contract promptly inform all unsuccessful bidders in writing of the name and address of the successful bidder and the contract amount and post a notice of award on its website within 7 days. Furthermore, the Public Entity shall attend to all requests for debriefing made in writing within 7 days of the unsuccessful bidders being informed of the award.

18. Notification of Award and Debriefing

This section contains supplementary criteria that the Employer shall use to evaluate quotations.

The Employer reserves the right to check the information provided by the bidders. If the bidder supplied wrong information, the Employer reserves the right to reject the quotation.

In addition to the criteria listed in ITB4, the following criteria shall apply:

a) Technical Evaluation:

All bids will be checked for compliance with the following criteria and will be given a technical score. The minimum technical score is 70%.

ITEM	MAX. POINTS
Relevant Bidder Experience:	40
Number of similar projects (rural and or urban reticulation) completed within the last 5 years:	
4 or more projects	40
3 projects	30
2 projects	20
1 project	10
BIDDER TO ATTACH CERTIFIED COMPLETION CERTIFICATES (FOR WORKS PERFORMED AS PRIME CONTRACTOR)	
Relevant Staff and Experience:	30
Bidders to list key personnel (Necessary staff with adequate qualifications, capability, and experience to undertake the assignment):	

Electrician with a minimum of 5 years of working experience as an electrician in urban and rural electrical reticulation projects. (2 points for each year)	10
Electrician with a Trade Diploma / Certificate (Minimum N3 Certificate).	10
Land Surveyor with a minimum of 5 years of working experience as a surveyor in urban and rural reticulation electrical projects (1 point for each year)	5
Land Surveyor with a Diploma in Geomatics / Land Surveying or related fields as a minimum qualification requirement.	5
CVs, QUALIFICATIONS, AND LETTERS OF INTENT TO BE PROVIDED AND SIGNED BY EACH STAFF MEMBER.	
Plant Capacity:	25
Bidder to submit proof of ownership (invoices and or calibration certificate) of the below listed plant or equipment. If the plant or equipment is not registered under the bidder's name / the bidder is not the legal owner, then the bidder must submit a Letter of Intent from the relevant owner stating that the bidder has authorization to use the drilling rig for this assignment.	
4 x 4 pick-up	5
Crane truck	5
Phase rotation	2
Multimeter	2
Impedance Tester	2
Earth Resistance tester	2
1000V Megger	2
Bidder to submit supporting photographs with timestamps highlighting the condition of the plant or equipment. The photographs must have been taken within the last 2 years. Bidder to also provide the make and model plant or equipment.	5
Work Method and Scheduling and SHE	5
Programs of Works (Project schedules) and SHE Policy	
Minimum bar chart program of works showing detailed key tasks and time period.	3
Experience on occupational health, safety, and environment Management	2
TOTAL	100

At this stage all bids which have achieved a minimum Technical Score of 70% (70 points) will be deemed Technically Responsive and be considered for further evaluation.

b) Financial Evaluation:

Bids that fall within a range of 5% below or 5% above the official estimated cost, including provisional sums, contingencies, escalation, and VAT, will be considered for award of this contract.

Bids will be evaluated based on Eligibility Criteria, Technical Compliance, and Total Cost and Range of Bid. The lowest responsive Bid which falls within the acceptable range will be selected to execute the work.

SECTION II: QUOTATION LETTER

(to be completed by Bidders)

[Complete this form with all the requested details and submit it as the first page of your quotation with the Priced Activity Schedule and documents requested above. A signature and authorisation on this form will confirm that the terms and conditions of the RFQ prevail over any attachments. If your quotation is not authorised, it will be rejected]

Quotation addressed to:	
Procurement Reference Number:	
The subject matter of Procurement:	

We offer to execute the Works detailed in the Statement of Requirements, by the terms and conditions stated in your Request for Sealed Quotations referenced above.

We confirm that we are eligible to participate in this Quotation exercise and meet the eligibility criteria specified in Section 1: Instructions to Bidders

We undertake to abide by the Conduct of Bidders and Suppliers as provided under the Public Procurement Act during the procurement process and the execution of any resulting contract.

We declare that the salaries and wages to be paid in respect of this quotation are compliant with the relevant Laws, Remuneration Order and Award where applicable and that we shall abide to clause 52 of the General Conditions of Contract, if we are awarded the contract or part thereof.

We have read and understood the content of the Bid Securing Declaration (BSD) attached hereto and subscribe fully to the terms and conditions contained therein. We further understand that this subscription could lead to **disqualification on the grounds mentioned in the BDS**.

The validity period of our Quotation is**days** from the date of the bid submission deadline.

We confirm that the prices quoted in the Priced Activity Schedule are fixed and firm and will not be subject to revision or variation if we are awarded the contract **before the expiry** date of the quotation validity.

Works will commence within**days** from date of issue of the Letter of Acceptance.

Works will be completed within ninetycalendar **days** from date of issue of the Letter of acceptance.

Quotation Authorised by:

Name of Bidder:		Company's Address and seal	
Contact Person:			
Name of Person Authorising the Quotation:		Position:	Signature:
Date		Phone No./E-mail	

Appendix to Quotation Letter - A

BID SECURING DECLARATION
(Section 45 of Act)
(Regulation 37(1)(b) and
37(5))

Date:[Day|month|year].

Procurement Ref No.: *W/RFQ-KERC/005/2024/2025*

To: **Kavango East Regional Council**

I/We* understand that in terms of section 45 of the Act a public entity must include in the bidding document the requirement for a declaration as an alternative form of bid security.

I/We* accept that under section 45 of the Act, I/we* may be suspended or disqualified in the event of

- (a) **a modification or withdrawal of a bid after the deadline for submission of bids during the period of validity;**
- (b) **refusal by a bidder to accept a correction of an error appearing on the face of a bid;**
- (c) **failure to sign a procurement contract by the terms and conditions outlined in the bidding document, should I/We* be successful bidder; or**
- (d) **failure to provide security for the performance of the procurement contract if required to do so by the bidding document.**

I/We* understand this bid securing declaration ceases to be valid if I am/We are* not the successful Bidder

Signed:
[insert signature of the person whose name and capacity are shown]

Capacity of:
[indicate the legal capacity of the person(s) signing the Bid Securing Declaration]

Name:
[insert complete name of the person signing the Bid Securing Declaration]

Duly authorized to sign the bid for and on behalf of:
[insert complete name of Bidder]

Dated on _____ day of _____
[insert date of signing]

Corporate Seal (where appropriate)

[Note*: In case of a joint venture, the bid securing declaration must be in the name of all partners to the joint venture that submits the bid.]

****delete if not applicable/appropriate***



Republic Of Namibia

Ministry of Labour, Industrial Relations and Employment Creation

Witten undertaking in terms of section 138 of the Labour Act, 2015 and section 50(2)(D) of the Public Procurement Act, 2015

1. EMPLOYERS DETAILS

Company Trade Name:

Registration Number:.....

Vat Number:

Industry/Sector:

Place of Business:

Physical Address:

Tell No:

Fax No:

Email Address:

Postal Address:

Full name of Owner/Accounting Officer:

Email Address:

2. PROCUREMENT DETAILS

Procurement Reference No:

Procurement Description:

Anticipated Contract Duration:

The location where work will be done, goods/services will be delivered:

.....

.....

3. UNDERTAKING

I, owner/representative
of

hereby undertake in writing that my company will at all relevant times comply fully with the relevant provisions of the Labour Act and the Terms and Conditions of Collective Agreements as applicable.

I am fully aware that failure to abide by such shall lead to the action as stipulated in section 138 of the Labour Act, 2007, which include but not limited to the cancellation of the contract/licence/grant/permit or concession.

Signature:

Date:

Seal:.....

Please take note:

1. A labour inspector may conduct unannounced inspections to assess the level of compliance
2. This undertaking must be displayed at the workplace where it will be readily accessible and visible by the employees rendering service(s) in relations to the goods and services being procured under this contract.

Appendix to Quotation Letter - B

EXPERIENCE AND REFERENCES CONTACT DETAILS

Number 3 of works of nature and amount similar to the Works performed as prime Contractor over the last 3 -5 years.

Project/Contract name and country	Name of Consultant, Contact Person and Contact Number	Type of work performed and year of completion	Value of contract in NAD
(a)			
(b)			
(c)			
(d)			
(e)			

Appendix to Quotation Letter - C

QUALIFICATIONS AND EXPERIENCE OF KEY PERSONNEL PROPOSED

Qualifications and experience of key personnel proposed for administration and execution of the Contract. *[Attach biographical data.]*

Position	Name	Years of experience (general)	Years of experience in the proposed position
(a)			
(b)			
(c)			
(d)			
(e)			
(f)			
(g)			

Appendix to Quotation Letter - D

CERTIFICATE OF SITE INSPECTION ATTENDANCE

This is to certify that I,
.....
representative of (tenderer)
.....
accompanied by (Engineer)
.....
visited the Site on (date)

Having previously studied the bidding documents, I carefully examined the site.

I have made myself familiar with all local conditions likely to influence the work and the cost thereof.

I further certify that I am satisfied with the description of the work and explanations given by the Engineer and that I understand perfectly the work to be done, as specified and implied in the execution of this contract.

.....
SIGNATURE OF TENDERER

DATE:

.....
SIGNATURE OF ENGINEER

Appendix to Quotation Letter - E

CERTIFICATE OF AUTHORITY TO KAVANGO EAST REGIONAL COUNCIL

I,.....

The undersigned, a director of the Board of Directors of said company or duly authorised by resolution of the Board of Directors, herewith provide authority to the Kavango East Regional Council permission to verify all information provided by the bidder in this document should the Council require to verify information during evaluation period.

Contractor :

Date :

Witness 1 :

Witness 2 :

SECTION III: STATEMENT OF REQUIREMENTS

A. SCOPE OF WORKS, SPECIFICATIONS AND PERFORMANCE REQUIREMENTS

A.1 INTRODUCTION

The scope of works of this project includes the supply, delivery and installation of grid connected streetlighting electrical infrastructure along the Trunk Road (B8) under the Council's capital project programme in Ndiyona Proper in Kavango East Region.

The site will be visited during the scheduled non-compulsory pre-bid site inspection and important elements will be pointed out to bidders. It is recommended that bidders join this site inspection in order to familiarise themselves with the terrain and sub-soil conditions, observe the extent of the Scope of Work covered under this bid and identify any and all aspects, challenges and constraints to be considered when preparing their bids.

The full scope of the works required to be carried out under the contract may increase or decrease depending on the budgetary constraints on the project.

A.2 GENERAL DESCRIPTION OF WORKS

The bidder should take note that the general description of the works serves to outline the extent of the works, but does not limit the amount of work, which may be required of the Contractor under this contract and in fulfilment of the project objectives. Holistic reference must be made to Section III: Statement of Requirements (including Scope of Work, Project Specifications and the Bid Drawings) and Section IV: Priced Activity Schedule for a complete description of the works.

A.2.1 GENERAL

The following activities will form part of the Contract:

- a) Establishment of plant and site camp of the contractor;
- b) Survey site topography, erf pegs and existing services and structures;
- c) Setting out of the works;
- d) Clearing the site;
- e) Excavations for streetlight poles and low voltage cables
- f) Supply, delivery and installation of streetlights and underground cables
- g) Supply and installation of road crossing sleeves;
- h) Co-ordination with NORED for connection, disconnection as well as inspections;
- i) Connection of new streetlighting infrastructure to existing infrastructure;
- j) Accommodation of traffic;
- k) Testing and commissioning;
- l) Cleaning of site;
- m) As-built information to project manager and NORED;
- n) Removal of plant and de-establishment.

The tenderer shall allow in his tender price for all material, labour, supervision, transport, tests and all other items necessary to complete the contract in its entirety and to the satisfaction of the Engineer.

In the event where the supply and/or installation of any item, material or equipment does not form part of this contract, it will be specifically indicated as such in this specification and/or the accompanying drawings.

A.3 SUPPLY, DELIVERY AND INSTALLATION OF STREETLIGHTING INFRASTRUCTURE

A.3.1 STANDARDS

All material and equipment supplied and/or installed under this contract shall be new and the best of their respective kinds and shall comply with the requirements laid down in the latest editions of the relevant SABS or BS and their amendments (if any) and the requirements of this Specification.

In event of items bearing the SABS mark being available in respect of the materials and equipment required, only items bearing this mark will be acceptable.

Street lighting luminaires are used for the lighting of public thoroughfares and roadways, contributing to road safety as well as public safety. The reliability and safety of these luminaires have a direct impact on levels of customer satisfaction as well as quality of supply.

This specification covers NORED's requirements for LED streetlight luminaires in accordance with relevant standards.

Tenderers shall complete the technical schedules as detailed – Technical Schedules in Section IV. All deviations from the requirements shall be stated in the tender documentation. In the absence of such a statement, it shall be understood that all requirements of this specification are fulfilled without exception.

Specifications are referenced in the normative references section; the list of standards may be used as a guide but should not be regarded as a complete list. Tenderers shall be responsible for obtaining copies of NRS, ARP and SANS documents and any other relevant current national and international standards.

LED streetlight luminaires shall comply with the relevant SANS and/or IEC equivalent standards or similar approved.

The workmanship under this contract shall be of a high standard and to the satisfaction of the Engineer.

A.3.2 VALUE ADDED TAX

Contractor shall allow in their tender for all VAT to be paid in respect of all items of material, labour, and equipment to be supplied in terms of this contract where relevant. The contractor will be liable and responsible for paying any and all such VAT.

A.3.3 RADIO AND TV INTERFERENCE

All equipment installed under this contract shall comply with the Communications Regulatory Authority of Namibia (CRAN) regulations any other applicable rules and regulations in respect of radio and TV interferences. Any equipment found producing interference after commissioning, shall be suppressed or replaced to the satisfaction of the Engineer without any additional cost.

A.3.4 REGULATIONS

The work shall be carried out strictly in accordance with and all material and equipment supplied shall comply with applicable laws and regulations.

- a) The latest edition of the “code of practice for the wiring of premises”, SANS 10142, as amended.
- b) The “electricity supply by-laws and regulations” of the supply authority-NORED’s Specification for LED Streetlighting Luminaires.

The contractor will be responsible for serving all notices and paying all fees due in terms of the above laws and regulations.

Best practice principles shall govern, and all work shall be of the highest standard. Materials used shall bear the markings of the relevant standards authority.

A.3.5 LOCAL SYSTEM AND OPERATING CONDITIONS

All materials and equipment supplied and/or installed under this Contract shall be suitable for satisfactory operation and shall have prescribed characteristics under the following conditions:

a) Ambient Operating Conditions

- | | | |
|----------------------------------|---|-------------------------------|
| i) Altitude | : | 1000m - 1200m above sea level |
| ii) Minimum ambient temperature | : | -5 Degrees Celsius |
| iii) Maximum ambient temperature | : | +40 Degrees Celsius |
| iv) Humidity | : | Up to saturation point |

b) Electrical System Particulars

Low Voltage LT System (415/240V) AC

- | | | |
|-----------------------|---|-------------------|
| Voltage | : | 415V |
| Frequency | : | 50Hz |
| Number of phases | : | 3 |
| Connection | : | 4 wire |
| Neutral earthing | : | Effective |
| Type of system | : | Underground cable |
| Maximum fault current | : | 5 kA |

A.3.6 DRAWINGS AND INFORMATION TO BE SUBMITTED

Drawings and information to be submitted on completion of the Works:

- a) Two sets of paper prints of all the drawings showing all "as built" features of the installation.
- b) Three complete sets of operating and maintenance manuals containing all drawings, test certificates, settings of equipment as commissioned, installation, commissioning and maintenance details, operating instructions, as well as a complete list of spare parts with reference numbers and technical description to enable the client's technical personnel to maintain service and repair the installation.

A.3.7 TEST CERTIFICATES AND TESTS

- a) Where test certificates are required for individual pieces of equipment, these shall be submitted to the Engineer for approval before commissioning.
- b) Where witnessing of tests is required by the Engineer, arrangements shall be made by the Contractor for the Engineer to witness such tests.

A.3.8 CIVIL WORK

All trenching and excavations for electrical installations shall be carried out by the electrical contractor. Quality assurance and control shall be as per NORED, and Roads Authority of Namibia's requirement.

Damage to existing infrastructure and structures shall be made good by the appointed electrical contractor at own cost.

A.4 LIGHTING INSTALLATION

A.4.1 GENERAL

The luminaires must comply with the relevant IEC, SANS, and ARP standards and be of a totally enclosed type, designed as Class 1 per the applicable standard. They should be suitable for operation in environments with heavy atmospheric pollution and high levels of solar radiation, at altitudes of up to 1500 meters, and within an ambient temperature range of -5°C to +45°C. These luminaires must be capable of withstanding exposure to wind, rain, hail, fog, and sleet during service.

The luminaires should include a lamp, control gear, and a spigot compartment with a degree of protection rating of at least IP66 for both the LED optical and control gear compartments. Preference will be given to luminaires exceeding these minimum protection ratings. They must be able to operate on a supply voltage of 230V \pm 10% at 50 Hz and have a life expectancy of at least 100,000 hours at 70% lumen maintenance within the specified temperature range.

The luminaires must be fitted with LED drivers and integrated photoelectric control units as needed. They should be delivered fully assembled, including all necessary components such as the housing, protector, driver, surge protection (10kV/10kA), LED module, and photoelectric control unit, where applicable. Separate compartments must be provided for the control gear, and the luminaires should meet a power factor requirement of at least 0.9. The LED optical unit should include a smooth, clear tempered glass protector with a

minimum ingress protection rating of IP66, ensuring photometric performance throughout its lifespan.

The luminaires must have stainless steel hinges and clips and be corrosion-resistant, meeting the relevant standards. Electrical components should bear a South African Bureau of Standards mark or equivalent approved certification. They must maintain at least 70% of their initial luminous flux after 100,000 hours of operation, with a colour temperature range of 3000K to 4000K and a minimum colour-rendering index of 70. The total system efficiency should be at least 100 lumens per watt. The LED modules must be designed so that the failure of one LED does not cause the rest to switch off. All ratings must be certified by a test report from a recognized authority, confirming compliance with the specified standards.

The luminaires should also reduce energy consumption by at least 20% compared to conventional luminaires, maintaining 70% of their initial lumens for a minimum of 100,000 hours. They must meet the lighting requirements outlined in SANS 10098-1 and be suitable for replacing high-pressure sodium and mercury vapor luminaires. Due to advancements in LED technology, naming conventions based on wattage are not sustainable, as the wattage of LED luminaires continues to decrease while meeting expected lighting values.

A.4.2 LUMINAIRE DETAIL REQUIREMENTS

All new streetlighting luminaires shall be equal to Beka - SCHRÈDER LEDLUME type with a protection class of IP66 for both lamp compartment and the electrical control gear compartment.

The luminaires shall be fitted with 76W LED luminaires. The luminaires colour shall be of the battleship grey colour.

Luminaires shall be robustly constructed to ensure they are weatherproof, hail proof, insect-proof, corrosion-proof, solar (including ultraviolet) resistant, and vandal-resistant. The housing shall be suitable for coastal conditions as outlined in EN 1706 AC 44300. To mitigate risks associated with road safety, luminaires shall be designed to avoid disintegration during vehicular impact. The luminaire housing must be securely attached to the pole spigot in a way that the control gear compartment remains affixed even after a severe impact. Additionally, all external parts and components of the luminaire shall be designed to shed water and prevent the accumulation of condensation or precipitation.

External parts and components must also be designed to shed dust, bird excretes and prevent the accumulation of dirt. Luminaires must be constructed from durable, lightweight materials and accompanied by test reports verifying that they have passed accelerated aging tests as per the relevant standards. These reports must demonstrate that the luminaires have a satisfactory performance history and that deterioration due to electrolytic action or differential thermal expansion will not occur.

The luminaire housing shall be manufactured using LM6 Marine Grade Aluminium as specified in EN 1706 AC-44300 and warranted to operate without distortion or deterioration for a minimum of five years. The power supply system shall automatically disengage when the luminaire is opened. Luminaires shall be available in a colour matching

to cloud number F48 (cloud grey) of SANS 1091 or another specified color. Painted luminaires are not accepted.

Ferrous components of the luminaires shall be hot dip galvanized following SABS ISO 1461 for heavy-duty applications. The latest edition of SANS 121 guidelines will apply for testing such requirements. External small components like clips, screws, bolts, nuts, and washers must be manufactured from stainless steel (grade 304 or better).

A.4.3 SINGLE CANTILEVER GALVANIZED STREETLIGHT POLES

(MOUNTING HEIGHT 10.65M)

a) Construction:

Poles shall be of stepped design, similar or equal to Sectional Poles type. The step shall be minimum at 4m above natural ground level.

Poles shall be of all welded construction. Buttwelds are only permitted with use of international reinforcing sleeves.

The steel used in the manufacture of the poles shall be Iscor steel to be SABS Spec 1431 Grade 300WA with a minimum yield strength of 300MPa. Test and analyses certificate must be provided on request. No steel sections shall be less than 3mm wall thickness.

All welding shall be carried out by coded welders only. Proof that all welders have been tested shall be provided on request.

A loose base plate, 600 x 600 x 6mm, shall be provided to be attached to the lower end of the pole by means of two stainless steel M8 hook bolts.

The poles shall have an outreach of 3000mm on either one side (single cantilever) or both sides (double cantilever).

b) Dimensions:

The poles shall be suitable for planting in the ground, giving a mounting height of 10,65m.

The poles shall be at the upper end have a diameter of 76mm to accommodate a post top fitting.

An access opening, not smaller than 230 x 90 shall be provided 1370mm above ground level and shall be complete with cover, secured by two 5-sided stainless-steel Allen screws and galvanised mounting/gland plate.

Two cable entries shall be provided 300mm below ground level at 90° displacements from the access opening.

All poles shall be fitted with a post top and cantilever spigot for side entry luminaires.

c) Corrosion protection:

All parts of the pole and associated parts shall be hot dip galvanised to SANS Spec 763/1977 and inspection certificate shall be provided on request.

All bolts and nuts shall be stainless steel.

No welding, drilling, punching, bending or removal of burrs shall be carried out after galvanising.

The lower 1,8m of pole shall be painted with two coats of black Bitumen paint.

A.4.4 PLANTING POLES

Since the B8 Road's servitude is more than 15 meters but less than 30 meters:

- Streetlighting luminaires shall be mounted on a galvanized pole with a 3m outreach cantilever arm with a mounting height of 10,65m unless otherwise indicated.
- Streetlighting poles shall be mounted as indicated on the layouts and not more than 40m apart.

Excavation for streetlighting poles shall be done to a depth 1.8m and clear of all rocks, after which it shall be backfilled with loose material just as per typical details provided.

The successful Contractor shall be responsible to plant the streetlighting poles to a depth of 1,8m. No rocks shall be allowed in the backfill material.

Backfill material shall be watered and properly compacted. All poles deviating from their vertical position during the retention period shall be re-installed with imported material at the Selected Sub-Contractor's own cost. Thus, material shall be imported where necessary

A.4.4 LV CABLE INSTALLATION

a) Cable Tests:

All cables shall be phased out to ensure correct phase connections. Phase rotation and insulation resistance tests shall also be performed. All tests' results shall be submitted to the Engineer before the final commissioning of the equipment of cables.

b) Excavations:

It is not foreseen that backfill material will have to be imported.

All cables shall be installed in a proper sand bedding of minimum 50mm thick.

The Contractor shall, before he starts with any excavations peg out the proposed cable route and confirm it with the Engineer.

All safety measures shall be taken to prevent damage to other services.

c) Installation of Cables:

No cable joints will be permitted. The new sleeve installation is to be completed before any cable is pulled through. Cables shall be installed in 300mm wide and 600mm deep cable trenches. Plastic electrical danger warning tape is to be installed along the cable run above cables on the first fill layer.

Each cable shall be tested (after installation) by means of a suitable insulation Resistance tester at 1000V and the phase-to-phase, phase-to-neutral and phase-to-earth resistance tabulated and certified.

All cable lengths indicated are given purely for tendering purposes only. The successful Contractor shall measure actual cable length requirements on site before

ordering. The final price for the supply and installation of all cables will be adjusted based on the actual cable lengths installed, in accordance with the unit rates quoted at the time of tendering. Surplus cable will not be paid for.

All cables shall be tagged on both ends with a proper approved plastic tag. Tag numbers shall be indicated with the schedule of cables on the as-built drawings to be issued to the engineer.

d) Cable Labels:

Each cable shall be labelled with the cable size and number of cores. The label shall be attached to the cable itself to ease troubleshooting. E.g.: 16mm²x4C

e) Circuit Breakers

Only ABB and Schneider Electrical Circuit shall be used on this project, unless otherwise stated.

A.5 ELECTRICAL INFRASTRUCTURE HANDLING AND REUSE

a) Removal of Existing Electrical Infrastructure:

All existing electrical infrastructure, including but not limited to streetlights poles and luminaires, cabling, and associated fixtures, shall be carefully dismantled and removed by the Contractor. This work must be performed with the utmost care to avoid damage to any components. All dismantled materials shall be securely stored and subsequently handed over to NORED.

b) Handover Process:

The Contractor shall coordinate with NORED to facilitate the handover of all removed electrical infrastructure. This handover must be formally documented, with records indicating the condition and quantity of each item handed over. The Contractor is responsible for ensuring that the handover process is completed smoothly and in accordance with the requirements NORED.

c) Reuse of Existing Electrical Infrastructure:

Upon receiving instructions from NORED, the Contractor shall purposefully reuse specific components of the removed electrical infrastructure. These components may include but are not limited to sleeves, streetlights poles and luminaires. The reuse of these components must be approved by NORED prior to installation.

d) Approval and Compliance:

The Contractor shall seek approval from NORED for the reuse of any existing infrastructure. The installation and reuse process must comply with all relevant supply authority regulations. Any deviations or modifications required must be brought to the attention of the NORED for approval before proceeding.

e) Documentation:

Detailed records of all activities related to the removal, handover, and reuse of electrical infrastructure shall be maintained by the Contractor. These records must be readily available for review by NORED and included in the final project documentation.

A.6 CONSTRUCTION PROGRAMME

The contract period will be **ninety (90) calendar days** and the contractor's proposed construction programme must reflect this period for construction. The contract period includes all public holidays as well as the December builder's holiday. The construction programme must include all required work tasks to carry out the works, indicate dependence between tasks as well as the critical path.

The detailed programme must be submitted to the Project Manager for approval within a maximum of 14 days from Notification of Award.

The programme MUST indicate the critical path, and any extension of time evaluation will be based on the effect on the critical path. It remains the Contractor's responsibility to mitigate delays at all times.

A.7 SITE FACILITIES AVAILABLE

The Contractor shall make his own arrangements for the supply of water, telecommunications and power required by him for the execution of the works. The Bidder shall allow for the cost of all such arrangements in his bid rates and no additional payment claims for construction water, telecommunications, electrical supply, or sewerage arrangements will be accepted.

Cost incurred in installing water, telecommunications, or electrical supply line from the supply points to the construction camp and/or works shall be for the Contractor's account.

The Contractor will be held responsible for any damages to the supply lines and fittings for the duration of the contract.

A.8 SITE FACILITIES REQUIRED

A.8.1 LABORATORY FACILITIES

The Contractor will not be required to have a testing laboratory on site. A recognised and Project Manager (PM) approved testing laboratory will be appointed by the Contractor to carry out all acceptance control tests as required by the Project Specifications. No additional payments will be made towards the testing of work as per the project specifications and the Contractor should allow for the required testing in his bid rates.

The PM will not require any laboratory facilities. Acceptance control testing required by the PM will be carried out in special cases by an approved independent laboratory. A provisional sum has been provided in the Bill of Quantities for any tests ordered by the PM, which are in addition to the Contractor's full testing requirements as per SANS 1200 and the Particular Project Specifications. Should the PM order PM's Control Testing to be done, the Contractor will be responsible for payment of the control laboratory invoice but will claim back such cost on the first claim following payment for the control testing.

A.8.2 CONTRACTOR'S SITE SANITARY FACILITIES

The Contractor shall provide and maintain adequate and proper ablution facilities for his site personnel at all times.

Latrines shall be effectively screened from view and maintained in a clean and sanitary condition. The Contractor shall make all the necessary arrangements for the regular removal and emptying of the sanitary pails at his own cost.

If at any time the Contractor fails to observe the previously mentioned conditions and after being notified by the PM, fails to rectify conditions, the PM shall have the right to order such materials and appoint any workers as may be seen necessary to maintain the sanitary facilities as set out above. All related costs will be for the Contractor's account.

A.8.3 PROJECT MANAGER'S SITE OFFICE AND ASSOCIATED FACILITIES

The PM will not require a site office for this contract. The Contractor will however ensure a well-built and sufficiently ventilated and cooled office is available on site in which to have the monthly progress meetings. This meeting office will have a large boardroom table with sufficient seating for 5 – 10 persons.

A.9 LOCATION OF SITE CAMP AND MATERIALS STORAGE AREA

The Contractor will establish his site camp and material storage area at a location on Site which is approved by the PM and the Employer.

Before occupying the Site for the execution of this Contract, the Contractor shall submit for the PM's approval a proposal for the layout of all his camp and storage areas.

A.10 ACCOMMODATION OF EMPLOYEES

With the exception of a night watchman, employees may not be housed or accommodated on the site of the Works unless otherwise approved by the Employer.

A.11 CONTRACT SIGNBOARDS

One contract Sign Board is required to be erected for this contract. The Sign Board shall be erected to the standards of the Association of Consulting Engineers of Namibia (ACEN) which will be made available to the Contractor after appointment.

A.12 SAFETY AND SECURITY ON SITE

A.12.1 SECURITY

It shall be the responsibility of the Contractor to control access to the site during the execution of the Contract to prevent any unauthorised persons from entering the site.

The Contractor shall provide security guards for this Contract as he deems fit.

A.12.2 SAFETY

The Contractor shall appoint a Safety Responsible Person as well as an assistant for him/her and their names shall be forwarded to the PM in writing before any work may commence. The Responsible Person shall legally be responsible for all safety on site. No work may be executed on site if neither of these two persons are on site.

The Contractor will be responsible for the safety of his personnel and the site in general at all times. All laws, rules, and regulations including the Machinery and Occupational Safety Act shall be strictly followed in this regard and all the necessary precautions and measures shall be taken to ensure the safety of personnel, the public, and equipment.

Deep excavations shall be demarcated with at least excavated ridges as well as danger tape, to be maintained by the Contractor at all times while the trench excavations are open. The Contractor shall explicitly plan his work in such a way as to minimise the duration deep trenches remain open.

A.12.3 SAFEGUARDING OF EXCAVATIONS

The responsibility of safeguarding of excavations lies entirely with the Contractor. No additional payment will be made for shoring or protecting trenches from collapse. These costs shall be deemed to be included in the rates tendered for excavation.

The Contractor shall further take all necessary steps to safeguard the public from open excavations. The area is built up with a lot of expected foot traffic on site. The Contractor shall allow for these safety measures in his rates and no additional payment will be made.

A.13 OVERHAUL

All rates tendered for material or excavation shall allow for all hauling to or from the site, if so required. For this Contract “free haul” shall therefore continue indefinitely and no overhaul shall be paid, unless otherwise specified.

A.14 FEATURES REQUIRING SPECIAL ATTENTION

A.14.1 EXISTING SERVICES

The Contractor shall acquaint himself with the position of all existing services before any excavation or other work likely to affect the existing services is commenced. Bidders must take note of numerous existing services as the area is a built-up area. It will be the Contractor’s responsibility to liaise with local authorities and utility companies to aim and identify as accurately as possible all existing services and accordingly plan for minimum damage. Known existing services include existing bitumen standard roads, underground water and sewer lines, underground electrical lines, streetlights, and telecom cables.

The Contractor will be held responsible for any damage to “known” existing services caused by or arising out of his operations. Existing services will be considered “known” if

it is either shown on the construction drawings or shown to the Contractor on site or deemed to have been obtainable from local authorities and utilities by the reasonable Contractor. The penalty for damage to a “known” existing service will be N\$ 2,500.00 plus the cost of repairing and reinstating such service.

Excavation by hand to expose existing services will be paid under the relevant bill item. The PM to approve the intended extents and evidence of volume excavated to be provided by the Contractor to the PM for measurement, verification, and payment. No additional payment will be made for temporary protection of services, deemed to be included in the bill rates.

A.14.2.SITE SUPERVISION AND TESTING

The Contractor shall ensure that sufficient supervisory staff, the required transport, instruments, equipment, and tools are available to control works on site. The PM or his representative will NOT act as a supervisor, foreman or surveyor.

All construction activities shall be executed and supervised by suitably qualified and experienced personnel. The responsibility of proving quality of work lies with the Contractor. With the assistance of the PM, an acceptable quality assurance system shall be implemented. The Contractor will be required to follow the procedures set by this QA system. Failure to do so will result in the rejection of work constructed in non-compliance with the approved QA system.

A.14.3 DISPOSAL OF SPOIL OR SURPLUS MATERIAL

All costs related to the disposal of unwanted rubble and waste shall be deemed to be included in the tendered rates and no additional claims in this regard will be considered. Good quality surplus material obtained from on-site excavations and not used as selected fill upon instruction to do so, can be spread within or around the site area upon approval and instruction of the PM.

Building rubble and domestic waste shall be removed from site and be dumped at approved municipal waste disposal sites. Burning of any kind of waste on site will NOT be allowed.

A.14.4 TRAFFIC CONTROL AND ACCESS TO PROPERTY

The successful Contractor must allow for provision and erection of all necessary barricading and road traffic sign-boarding where required.

The Contractor must take cognisance of the fact that the area to be serviced is built up. All accesses to properties must be maintained. The cost of this to be allowed for in the bid rates.

A.14.5 RESTORING SURFACES

All rubbish, tools, tackle, plant, and material must be removed immediately from each section of the work as soon as it is completed. Each completed section of the work is to be left in a neat, tidy, and orderly state.

The Contractor will be held responsible for all damage to existing road surfaces, kerbs and channels outside the specified excavation dimensions, and the work has to be restored at his own expense to the satisfaction of the PM.

A.15 QUALITY CONTROL

It will be the full responsibility of the Contractor to undertake appropriate quality control and quality assurance measures on site. The PM shall audit the Contractor's QA system on a regular basis to ensure that adequate independent checks and tests are being carried out and to ensure that the Contractor's own controls are sufficient to identify any possible quality problems which could cause a delay on the programme.

Quality control tests on materials and work executed will be very important on this Contract. Materials not tested and approved will not be allowed on site.

A.16 COPYRIGHT

All records connected with or referring to the contract in any way shall become the property of the Employer in whom the copyright shall rest.

B. PROJECT SPECIFICATIONS

B.1. APPLICABLE STANDARDIZED AND GENERAL SPECIFICATIONS

The applicable standard specifications for this Contract will be the latest versions of the "SABS" at the time of the bid deadline. None of the above standard specifications is included in this document and it is the Bidder's responsibility to familiarise himself with the SANS 1200 suite of specifications.

The following standards guidelines will apply to this contract:

SANS 1200 A GENERAL

SANS 1200 C SITE CLEARANCE

SANS 1200 LC CABLE DUCTS

SANS 10142, WIRING OF PREMISES

SANS 10098-1:2007, PUBLIC LIGHTING – PART 1: THE LIGHTING OF PUBLIC THOROUGHFARES.

SANS 10098-2, PUBLIC LIGHTING – PART 2: THE LIGHTING OF CERTAIN SPECIFIC AREAS OF STREETS AND HIGHWAYS.

SANS 60598-1:2009, LUMINAIRES – PART 1: GENERAL REQUIREMENTS AND TESTS.

ARP 035:2014, GUIDELINES FOR THE INSTALLATION AND MAINTENANCE OF STREET LIGHTING.

SANS 475, LUMINAIRES FOR INTERIOR LIGHTING, STREET LIGHTING, AND FLOODLIGHTING - PERFORMANCE REQUIREMENTS.

SANS 1088, LUMINAIRE ENTRIES AND SPIGOTS.

SANS 121, HOT-DIP GALVANISED COATINGS ON FABRICATED IRON AND STEEL ARTICLES – SPECIFICATIONS AND TEST METHODS.

SANS 1091, NATIONAL COLOUR STANDARDS FOR PAINTS.

SANS 60529, DEGREES OF PROTECTION PROVIDED BY ENCLOSURES (IP CODE).

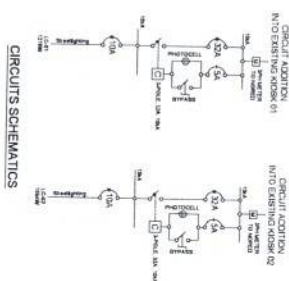
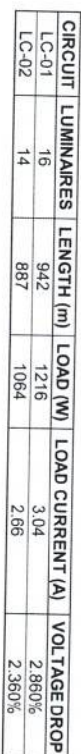
B.2. PROJECT AMENDMENTS AND ADDITIONS TO THE STANDARD SPECIFICATIONS
















Should any requirements of the Project Specifications conflict with any requirements of the Standardized and/or Particular Specifications in this document, the requirements of the Project Specification described herein shall prevail and take preference.

C. DRAWINGS

TABLE OF BID DRAWINGS

Drawing No	Description	Status	Rev No
2105900-ESP-00	ELECTRICAL SITE PLAN - SITE & SURVERY	BID	0
2105900-ESP-01	LECTRICAL SITE PLAN - STREETLIGHT LAYOUTAND CIRCUIT SCHEMATIC	BID	0
2105900-E-TD-01	ELECTRICAL TYPICAL DETAILS	BID	0

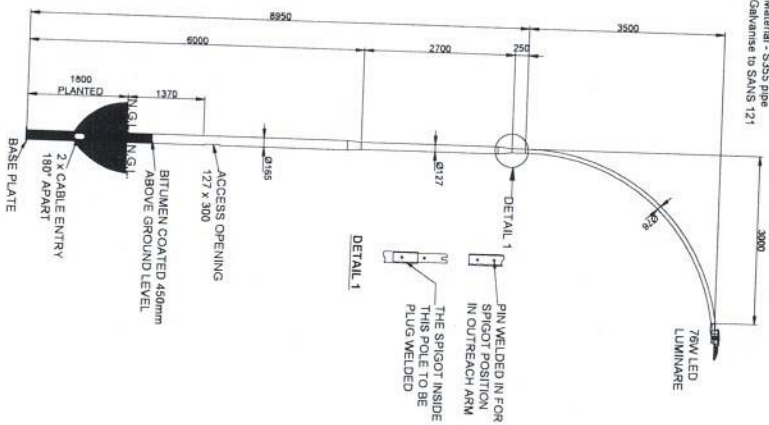
[illegible]

	1-PHASE LINE AS PROVIDED
	2-PHASE LINE AS PROVIDED
	3-PHASE LINE AS PROVIDED
	1-PHASE CONTACTOR
	3-PHASE CONTACTOR
	2-PHASE SWITCH
	3-PHASE SWITCH
	3-PHASE SWITCH AS PROVIDED
	3-PHASE SWITCH AS PROVIDED
	3-PHASE SWITCH AS PROVIDED
	3-PHASE SWITCH AS PROVIDED
	3-PHASE SWITCH AS PROVIDED
	3-PHASE SWITCH AS PROVIDED
	3-PHASE SWITCH AS PROVIDED
	3-PHASE SWITCH AS PROVIDED

DRAWING NO. 2708060-ESP-01		SHEET NO. 02 OF 02	
PROJECT NAME NATIONAL STREETLIGHTS RETAILATION		DRAWING TITLE ELECTRICAL SITE PLAN, STREETLIGHT LAYOUT AND CIRCUIT DIAGRAM	
CONSULTING ENGINEER WCE WASHINGTON CONSULTING ENGINEERS 1000 15th Street, N.E. Suite 1000 Washington, D.C. 20002 Phone: (202) 462-1000 Fax: (202) 462-1001 Email: info@wce.com		OWNER KAYAKO EAST REGIONAL GOVT. 1400 15th Street, N.E. Suite 1000 Washington, D.C. 20002 Phone: (202) 462-1000 Fax: (202) 462-1001 Email: info@kayako.com	
PROJECT NUMBER 2708060-ESP-01		DRAWING NO. 2708060-ESP-01	
PROJECT LOCATION NATIONAL STREETLIGHTS RETAILATION		DRAWING TITLE ELECTRICAL SITE PLAN, STREETLIGHT LAYOUT AND CIRCUIT DIAGRAM	
PROJECT NUMBER 2708060-ESP-01		DRAWING NO. 2708060-ESP-01	
PROJECT LOCATION NATIONAL STREETLIGHTS RETAILATION		DRAWING TITLE ELECTRICAL SITE PLAN, STREETLIGHT LAYOUT AND CIRCUIT DIAGRAM	

NOTES

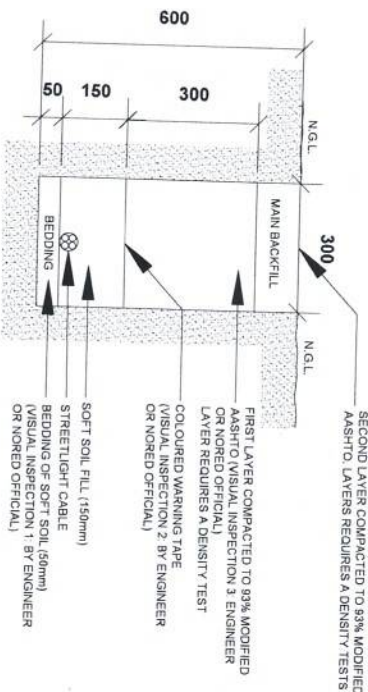
1. All dimensions in mm
2. Material - S355 pipe
3. Galvanise to SANS 121



DETAIL B: STREETLIGHT CABLES TRENCH DETAIL

NOTES

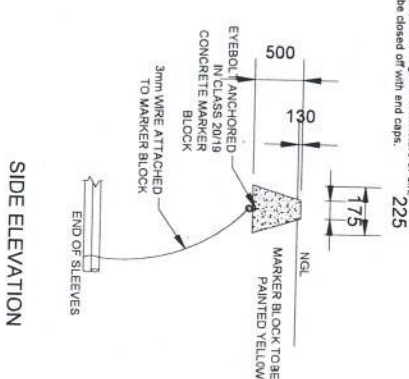
1. The trench shall be clear of stones and other obstructions.
2. During cable laying, the cable shall be staked so that any longitudinal expansion or contraction can be accommodated.
3. The trench shall be properly compacted to 93% of modified AASHTO density in layers of 500mm and a warning tape shall be installed.
4. After installation, each cable shall be tested by means of a suitable insulation resistance tester and the phase-to-phase, phase-to-neutral and phase-to-earth insulation tabulated and certified
5. Streight cables shall be installed 5000mm from the road edge in 600mm deep trenches.



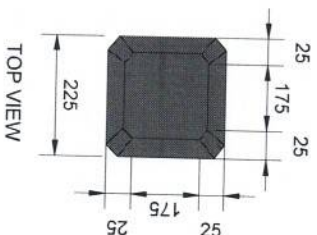
DETAIL C: PRE-CAST CONCRETE MARKER BLOCK FOR ROAD CROSSING SLEEVES END POSITION MARKER DETAILS

NOTES:

1. Marker block to be installed at the end of sleeves on each side of the road.
2. Sleeves to protrude 1500mm from road edge.
3. Road crossing sleeves marker does not require a steel plate for engraving, but must just be painted yellow.
4. Sleeves to be of Ø110mm uPVC class 6.
5. Sleeves shall be sealed to prevent ingress of moisture or dirt.
6. Unutilized sleeves shall be closed off with caps.



SIDE ELEVATION

[illegible]

SECTION IV: PRICED ACTIVITY SCHEDULE

Procurement Reference Number: *W/RFQ-KERC/005/2024/2025*

Bidder to fill in and complete the given Bill of Quantities in this section.

Priced Activity Schedule Authorised By:

Name:		Signature:	
Position:		Date:	
Authorised for and on behalf of:	Company		

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	PRELIMINARY & GENERAL AMOUNT	
							(N\$)	c
1	PRELIMINARY & GENERAL							
1.1	Tenderers shall allow for the following items whatever cost they may consider necessary in carrying out and observance of the items	Sum	1					
1.2	Transport	Sum	1					
1.3	Site Establishment and De-Establishment	Sum	1					
1.4	Site Clearing, Setting Out & Measurements	Sum	1					
1.5	Insurance & Warranties	Sum	1					
1.6	Office Overheads (Telephone, Stationery, etc.)	Sum	1					
1.7	Site Supervision	Sum	1					
1.8	Progress Meetings	Sum	1					
1.9	Tests & Inspections prior to Completion	Sum	1					
1.10	As-Built Drawings	Sum	1					
1.11	Liaison with NORED	Sum	1					
1.12	Additional Control Tests ordered by the Engineer	PS	1	00.00	10,000.00	10,000.00	10,000	00
Total Carried Forward To Summary								

PREPARED BY WINDHOEK CONSULTING ENGINEERS

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	CIVIL WORKS	
							AMOUNT	
							(N\$)	c
2	CIVIL WORKS							
2.1	Construction of 600mm deep, 300mm wide trench for Streetlight Cable in pickable material, including bedding, blanket, warning tape and backfilling to 93% modified AASHTO	m	1,830					
2.2	Excavation, backfill and compaction of 1800mm deep holes for streetlight poles to 93% modified AASHTO	No	30					
	Supply, delivery and installation of the following uPVC road crossing sleeves at a depth of 1000mm from road surface level and extending by 1500mm from road edge into islands or side walk paving, complete including end caps and draw wires							
2.3	110mm ø sleeves for MV & LV Power, Telecommunication and Streetlighting	m	48					
2.4	Supply, delivery and installation of concrete marker blocks for end of sleeves' positions marking, yellow painted, with draw wire configuration between marker and end of sleeves	No	4					
Total Carried Forward To Summary								
PREPARED BY WINDHOEK CONSULTING ENGINEERS								

STREETLIGHT NETWORK								
ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							(N\$)	c
3	STREETLIGHT NETWORK							
3.1	Supply, delivery and installation of 16mm² x 4 Core PVC/SWA/PVC 1000V Low Voltage cable	m	1,890					
3.2	Supply, delivery and installation of 16mm² termination units including mechanical clamps, lugs, corrosion proof bolts, nuts and washers	No	60					
3.3	Supply, delivery and installation of 10.65 meter mounting height single cantilever streetlight poles complete with 5A circuit breaker, wiring, but excluding luminaires	No	30					
3.4	Supply, delivery and installation of 76W LED streetlight luminaire (150W HPS equivalent) side entry streetlight luminaire complete including lamp and control gear as BEKA-SCHREDER LEDLUME MIDI	No	30					
Total Carried Forward To Summary								
PREPARED BY WINDHOEK CONSULTING ENGINEERS								

MAINTENANCE								
ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							(N\$)	c
4	MAINTENANCE							
4.1	Cost required for the 12 month maintenance period including at least one site visit every 3 months.	Sum	1					
Total Carried Forward To Summary								

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	UNSCHEDULED ITEMS	
							AMOUNT (N\$)	c
5	UNSCHEDULED ITEMS Provision of unscheduled items needed for the completion of the described works							
Total Carried Forward To Summary								
PREPARED BY WINDHOEK CONSULTING ENGINEERS								

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (N\$)
1	PRELIMINARY & GENERAL	.....
2	CIVIL WORKS	.....
3	STREETLIGHT NETWORK	.....
4	MAINTENANCE	.....
5	UNSCHEDULED ITEMS	.....
	SUBTOTAL	.....
7.6	10% CONTINGENCIES	.....
	SUBTOTAL	.....
7.7	15% VAT	.....
Total Carried Forward To Summary Of Schedules		.....

BILL OF QUANTITIES NOTES

1. The quantities in these Bill of Quantities are provisional and shall be measured as executed and paid for according to prices in the Bill of Quantities and any unexpended amounts shall be deducted from the amount of the contract sum.
2. The quantities in these Bill of Quantities are not to be used for ordering materials.
3. The Bill of Quantities form part of and must be read in conjunction with the specifications, which document contains the full description of the works to be done and material and equipment to be used and unless otherwise described in the Bill of Quantities, reference should be made to the specification for the full meaning or description of work to be done and materials and equipment to be used in this service.
4. No alteration, erasure or addition is to be made in the text of the Bill of Quantities.
5. Should any alteration, or erasure be made, it will not be recognized but the original wording of the Bill of Quantities will be adhered to.
6. The priced Bill of Quantities of the successful tenderer will be checked, and the Client reserves the right to call for an adjustment to any individual price and to rectify the discrepancy.
7. Variations in the scope and extent of the work included in the Bill shall be allowed to meet the employer's requirements and shall be measured and cost at rates entered in the Bill, where appropriate, and shall form additions to or deductions from the total of the Bill.
8. Any items or variations for which rates have not been included in the Bill of Quantities shall be agreed and priced as non-scheduled items by the provisions of the contract.
9. The rules covering the extent and costing of the variation shall be those provided for in the General Conditions of Contract.
10. Unless a separate rate for the supply and the installation of any item is specifically called for, the supply and installation cost of any item shall be fully included in the unit price.
11. The description of each item shall, unless otherwise stated herein, be held to include making, conveying and delivering, unloading, storing, unpacking, hoisting, waste, patterns, models and templates, plant, temporary works, return of packing, establishment charges, profit and all other obligations arising out of the conditions of the contract.
12. All fittings and accessories always include the connections thereto.

13. All measurements are nett unless otherwise stated, and Bidders must allow in their rates for wastage.
14. All provisional sums shall be expended as directed by the Engineer and any balance remaining shall be deducted from the amount of the contract sum.

TECHNICAL SCHEDULE OF INFORMATION ON STREETLIGHTING MATERIAL

Technical information to be submitted with Tender.

a) Streetlighting Poles

MANUFACTURER	
TYPE AND MODEL	
COMPLY WITH MINIMUM SPECIFICATIONS	(YES/NO)
ADDITIONAL FEATURES	
TECHNICAL SPECIFICATION SHEETS INCLUDED	(YES/NO)

b) Streetlighting Luminaires

MANUFACTURER	
TYPE AND MODEL	
COMPLY WITH MINIMUM SPECIFICATIONS	(YES/NO)
ADDITIONAL FEATURES	
TECHNICAL SPECIFICATION SHEETS INCLUDED	(YES/NO)

SECTION VI: GENERAL CONDITIONS OF CONTRACT AND CONTRACT AGREEMENT

Any resulting contract shall be placed using a Letter of Acceptance and shall be subject to the General Conditions of Contract (GCC) for the Procurement of Works

SECTION VIII SPECIAL CONDITIONS OF CONTRACT

Procurement Reference Number: **W/RFQ-KERC/005/2024/2025**

The clause numbers given in the first column correspond to the relevant clause number of the General Conditions of Contract.

GCC Clause Reference	Special Conditions
Employer GCC 1.1(r)	The Employer is the Kavango East Regional Council The name of the authorized representative is: Mr. Jonas Toloshi
Intended Completion Date GCC	The intended completion date is: Ninety (90) calendar days after appointment
Project Manager GCC 1.1(y)	The Project Manager is: Name: Windhoek Consulting Engineers (Pty) Ltd Address: North View Park 2, Ongwediva, Namibia Authorized Representative: Mr. Frans Nakale
Site GCC 1.1(aa)	The Site is located at: Address of Site: Ndiyona Proper, Kavango East Region, Namibia
Start Date GCC 1.1(dd)	The Start Date shall be: 7 days after receipt of appointment letter or as agreed between Employer and Contractor
The Works GCC 1.1(hh)	The Works consist of: Supply, delivery and Installation of Streetlights on the Trunk Road (B8) at Ndiyona
Interpretation GCC 2.2	The following additional documents shall form part of the contract: SANS 1200, SANS 10098-1:2007, SANS 10098-2, SANS 60598-1:2009, SANS 475, SANS 1088, SANS 121, SANS 1091, SANS 60529, SANS10142, NORED's Specification for LED Luminaires

GCC Clause Reference	Special Conditions
Language and Law GCC 3.1	<p>The language of the contract is English</p> <p>The law that applies to the Contract is the law of Namibia.</p>
Project Manager's Decisions 4.1	<p>The Project Manager shall obtain specific approval from the Employer before carrying out any of his duties under the Contract which in the Project Manager's opinion will cause the amount finally due under the Contract to exceed the Contract Price or will give entitlement to an extension of time. This requirement shall be waived in an emergency affecting the safety of personnel or the Works or adjacent property.</p>
Delegation GCC 5.1	<p>The Project Manager may delegate his duties and responsibilities.</p>
Notices GCC 6	<p>Delivery address for notices is:</p> <p>Employer:</p> <p>Contact Mr J.M. Kangumbe</p> <p>Kavango East Regional Council Private Bag 2124 Maria Mwengere Street, Rundu Namibia</p> <p>For Contractor, to be advised on Contract award and signing and the contact name shall be:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
Insurance GCC 13.1	<p>Except for the cover mentioned in (d)(i) hereunder, the other insurance covers shall be in the joint names of the Contractor and the Employer and the minimum insurance amounts shall be:</p> <p>(a) for the Works, Plant and Materials: <i>Contract Amount + 20%</i></p> <p>(b) for loss or damage to Equipment: <i>Replacement value of the equipment that the contractor intends to use on-site until the taking over by the Employer</i></p>

GCC Clause Reference	Special Conditions
	<p>(c) for loss or damage to property (except the Works, Plant, Materials, and Equipment) in connection with Contract: N\$ 500,000.00</p> <p>(d) for personal injury or death:</p> <p>(i) of the Contractor's employees: N\$ 1,000.000.00 <i>[The Contractor shall take an adequate insurance cover for its employees for any claim arising in the execution of the works].</i></p> <p>(ii) of other people: N\$ 1,000.000.00 <i>[This cover shall be for an adequate amount for Third-Party extended to the Employer and its representatives].</i></p> <p>(e) for loss or damage to materials on-site and for which payment has been included in the Interim Payment Certificate, where applicable. N/A</p> <p>The Contractor shall choose to take the insurance covers indicated above as separate covers or a combination of the Contractor's All Risks coupled with the Employer's liability and First Loss Burglary, after approval of the Employer. All insurance covers shall be of nil or the minimum possible deductibles at the sole expense of the contractor.</p>
Site Date GCC 14.1	The site Data shall be: <ol style="list-style-type: none"> 1. Construction Drawings 2. Cadastral Drawings and General Plans
Possession of the Site GCC 20.1	The Site Possession Date shall be: 7 Days after the appointment letter
Procedure for Disputes GCC 24	No Adjudicator shall be appointed under the contract and arbitration shall not apply. If any dispute arises between the Employer and the Contractor in connection with or arising out of the Contract, the parties shall seek to resolve any such dispute by amicable agreement. If the parties fail to resolve such dispute by amicable agreement, within 14 days after one party has notified the other in writing of the dispute, then the dispute shall be referred to the court by either party.
Program GCC 25.1	The Contractor shall submit for approval a Program for the Works within 7 days from the date of the Letter of Acceptance.
GCC 25.3	Program updates shall be required.
Defects Liability Period GCC 33.1	The Defects Liability Period is 365 days .

GCC Clause Reference	Special Conditions
Payment Certificates GCC 39.7	<p>Interim Payment for Plant and Material on-site is applicable.</p> <p>Materials on-site will be paid at 80% of the invoiced (original from supplier) amount and on proof of payment and possession of the said materials.</p> <p>No payment will be made to the Contractor unless one of the following documents is provided with the Contractor's statement:</p> <ul style="list-style-type: none"> • Proof of ownership of the material; • A written cession of ownership from the supplier to the Contractor; • A bank guarantee for the full amount of the claim from an approved financial institution; or • Written permission to the Client to pay the Supplier directly.
Payments GCC 40	<p>The amount certified by the Project Manager shall be paid in full within 30 days of receipt by the Employer of an invoice, supported by:</p> <p>(a) the payment certificate; and</p> <p>(b) a certificate of completion of the Works.</p>
Price Adjustment GCC 44.	<p>The Contract <i>is not</i> subject to price adjustment by GCC Clause 44, and the following information regarding coefficients <i>does not</i> apply.</p>
Retention GCC 45.	<p>(i) 10% of the amount shall be retained from any payment. Half of the retention money will be released after issuing of the Certificate of Completion and formal taking over of the Works and the remaining shall be released after the Defect Liability Period subject to the Contractor making good all defects.</p>
Liquidated Damages GCC 46.1	<p>The liquidated damages for the whole of the Works are N\$ 1,500.00 per day.</p> <p>The maximum amount of liquidated damages for the whole of the Works is N\$ 150,000.00.</p>
Bonus GCC 47.1	<p>N/A</p>
Advance Payment GCC 48.1	<p>(i) No advance payment shall be made.</p>
Performance Security GCC 49.1	<p>The Performance Security amount is 10% of the Contract Amount inclusive of contingencies and VAT</p>

GCC Clause Reference	Special Conditions
	<p>(a) Bank Guarantee: 10% of Contract Amount (Including Contingencies and VAT)</p> <p><i>[A Bank Guarantee shall be unconditional (on demand) (see Section VIII. Security Forms).</i></p>
GCC 56.1	“As-built” drawings or operating are required.
GCC 59.1	The percentage to apply to the value of the work not completed, representing the Employer’s additional cost for completing the Works, is 5%.

SCHEDULE 2

QUOTATION CHECKLIST SCHEDULE

Procurement Reference No.: *W/RFQ-KERC/005/2024/2025*

Description	Attached	Not Attached
Quotation letter with Appendices		
Completed Appendix to quotation Letters		
Priced Activity Schedule		
Signed Bid Securing Declaration		
Valid copy of Company Registration Certificate		
Original valid or certified good Standing Tax Certificate		
Original valid or certified good Standing Social Security Certificate		
Signed Bid Securing Declaration		
Valid certified copy of Affirmative Action Compliance Certificate		
Company Profile		
Fitness Certificate		
Signed Certificate of Attendance		
Valid copy of Supply Authority License		

Disclaimer: The list defined above is meant to assist the Bidder in submitting the relevant documents and shall not be a ground for the bidder to justify its non-submission of major documents for its quotation to be responsive. The onus remains on the Bidder to ascertain that it has submitted all the documents that have been requested and are needed for its submission to be complete and responsive.