REPUBLIC OF NAMIBIA

OSHIKOTO REGIONAL COUNCIL

Request for Sealed Quotations for Works

CONSTRUCTION OF ELECTRICAL SERVICES IN ONAYENA IN OSHIKOTO REGION

Procurement Reference No: W/RFQ/ORC-01/2023

OSHIKOTO REGIONAL COUNCIL
P O BOX 19247
OMUTHIYA – Namibia
Tel: 065 244 800
Fax: *065 244 071*

04TH AUGUST 2023

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B REPUBLIC OF NAMIBIA

OSHIKOTO REGIONAL COUNCIL

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Enquiries: E. N. Amukwaya

P.O. Box 19247
OMUTHIYA
04th August 2023

Letter of Invitation

Name and Address of the Bidder:

.....

.....

.....

Procurement Reference Number: **W/RFQ/ORC-01/2023**

Dear Sir / Madam,

REQUEST FOR QUOTATIONS FOR THE CONSTRUCTION OF ELECTRICAL SERVICES IN ONAYENA SETTLEMENT IN OSHIKOTO REGION

The **Oshikoto 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 **Ms. Elizabeth Aimwata, Chief Development Planner: Oshikoto Regional Council, Tel: 065 – 244 800.**

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

Yours Faithfully,

OSHIKOTO REGIONAL COUNCIL
2023 -08- 04
SECRETARY: PROCUREMENT COMMITTEE

The Head

Section 1 : INSTRUCTIONS TO BIDDERS

1.1 Rights of Public Entity

The public entity 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 prior to contract award.

1.2 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 annex for Bid Securing Declaration, where applicable;

(b) the Priced Bill of Quantities 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.

1.3 Validity of Quotations

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

1.4 Eligibility Criteria

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

(a) have a valid certified copy of the company Registration Certificate;

(b) have an original valid good Standing Tax Certificate;

(c) have an original valid good Standing Social Security Certificate;

(d) have a valid certified copy of Affirmative Action Compliance Certificate, 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;

(e) have a certificate indicating SME Status (for Bids reserved for SMEs);

(f) Submit valid bid securing declaration.

(g) Proof of registration with the local supply authority (i.e NORED) as an electrical contractor, authorized to operate on system voltage up to 400V. **The NORED Licence must be in the name of the bidder, or the member of the entity submitting the bid**.

1.5 Bid Securing Declaration

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

1.6 Works Completion Period

The completion period for works shall be 16 weeks after acceptance and issue of Purchase Order. Deviation in completion period shall be considered if such deviation is reasonable.

1.7 Sealing and Marking of Quotations

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

1.8 Submission of Quotations

Quotations should be deposited in the Quotation/Bid Box located at **the reception, Oshikoto Regional Council, Omuthiya Town**, not later than **12H00 p.m, on Thursday the 31st August 2023**. Quotations by post or hand delivered should reach the Oshikoto Regional Council, Omuthiya by the same date and time at latest. Late quotations will be rejected.
Quotations received by e-mail will not be considered.

1.9 Opening of Quotations

Quotations will be opened internally by the Oshikoto Regional Council immediately after the closing time referred to in section 1.8 above. A record of the Quotation Opening stating the name of the bidders, the amount quoted, the presence or absence of a Bid Security/Bid Securing Declaration, will be made available to any bidder on request within three working days of the Opening.

1.10 Evaluation of Quotations

The Oshikoto Regional Council shall have the right to request for clarifications in writing during evaluation. Offers that are substantially responsive shall be compared on the basis of evaluated cost, subject to Margin of Preference where applicable, to determine the lowest evaluated quotation.

1.11 Technical Compliance

The Specifications and Compliance Sheet details the minimum specifications of the works to be carried out. The specifications have to be met, but no credit will be given for exceeding the specifications.

1.12 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.

1.13 Margin of Preference

1.1. The applicable margins of preference and their application methodology are as follows:

[Not applicable]

1.2. Bidders applying for the Margin of Preference shall submit, **upon request**, evidence of:

[Not applicable]

1.14 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 contract shall be by issue of a Purchase Order/Letter of Acceptance in accordance with terms and conditions contained in Section VI: Contract Agreement and General Conditions of Contract.

1.15 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.

1.16 Notification of Award and Debriefing

The Oshikoto Regional Council shall after award of contract promptly inform all unsuccessful bidders in writing of the name and address of the successful bidder and the contract amount. Furthermore, the Oshikoto Regional Council shall attend to all requests for debriefing made in writing within 7 days of the unsuccessful bidders being informed of the award.

Section 2 : 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:	OSHIKOTO REGIONAL COUNCIL
Procurement Reference Number:	W/RFQ/ORC-01/2023
Subject matter of Procurement:	CONSTRUCTION OF ELECTRICAL SERVICES IN ONAYENA SETTLEMENT IN OSHIKOTO REGION

We offer to execute the Works detailed in the Statement of Requirements, in accordance with 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 have read and understood the content of the Bid Security/Bid Securing Declaration (BSD) attached hereto and subscribe fully to the terms and conditions contained therein. We further understand that this subscription could lead [*forfeiture of the security amount / disqualification on the grounds mentioned in the BDS]*

The validity period of our Quotation is _____ days *[insert number of 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 **prior to the expiry** date of the quotation validity.

Works will commence within _____ *[insert number]* days from date of issue of Purchase Order/ Letter of Acceptance.

Works will be completed within _____ *[insert number]*days from date of issue of Purchase Order/ Letter of acceptance.

Quotation Authorised by:

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

Appendix to Quotation Letter

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

Date: .....*[Day|month|year]*.....

Procurement Ref No.: .....

To: .....*[insert complete name of Public Entity and address]*.....

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 in accordance with the terms and conditions set forth 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 person whose name and capacity are shown*]

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

Name:
.....
[insert complete name of 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.]

Section 3 : STATEMENT OF REQUIREMENTS

1 SCOPE OF WORKS, SPECIFICATIONS AND PERFORMANCE REQUIREMENTS

This Contract covers the provision of street lights at Onayena Settlement, in Oshikoto region, for the 2023/2024 financial year.
Due to the budget constraint, only a total of 7 streetlights will be installed along the street north of Nehale Senior Secondary School, connected from the existing 315kVA minisub. The luminaires are 88W LED / or equivalent to specification, installed onto the 9.2m galvanised steel poles. These are indicated on the
, as indicated in the project drawing.

1.1 Particulars of the work

The work shall provide a complete service in accordance with the specifications and to the satisfaction of the Engineer, and shall include all items necessary for the completion of the service in its entirety, whether specified in detail or not. No extra costs will be considered for the provision of this service unless specifically detailed by the Contractor in a covering letter submitted with his tender.

1.1.1 INSTALLATION OF STREETLIGHTS AT ONAYENA SETTLEMENT

A one-sided single-pole, galvanised steel poles 9.2m, 8m above ground level, with bitumen protective corrosion sleeve around the base of the pole, single luminaire design – is considered.
All works will be according to the applicable standards and to the local authority's requirements. All designs have *been based on the SANS 098: Part I-1990 as well as SANS 098: Part II-1973 standards. – as well as the Amendment 1:11 March 1996 and Amendment 2: 30 July 1998.*
The Contractor shall peg out the positions and routes, but shall maintain close liaison with the Engineer. Should the proposed position of the poles appear unsatisfactory due to obstructions, poor soil conditions, rock, etc., the Engineer shall be consulted and a ruling obtained.
The Contractor shall issue all notices and make arrangements with the local Supply Authority, Telecom Namibia, the Roads Authority Department, and other authorities as may be required with respect to the installation of the street lights. He shall also take all the necessary precautions and provide warning signs and/or lights to ensure that the public and/or employees are not endangered.
The Contractor shall acquaint himself with the position of existing services and infrastructure prior to commencing the installation. He will be held responsible for damage to any existing services and will be responsible for the cost of repairs. Damage to existing services shall be reported immediately to the responsible authority.

1.1.2 STREETLIGHTING CONTROL BOARDS

Supplied from the existing 315kVA minisub, existing street lighting controls.

1.1.3 STREET-LIGHTING CONNECTIONS

The connection of the LV (Low Voltage) underground cables to the streetlights involves cable work, terminations and joints, and must be done in accordance with the standard drawings and the site instructions to be issued.

1.1.4 INSTALLATION AND WIRING OF STREETLIGHT ACCESS HOLES

The Contractor is responsible for the installation and wiring / termination of the necessary street-lighting poles. Reference should be made to the standard drawings for typical layout. Circuit breaker details (types and sizes) for each pole are specified on the schematic layout diagrams.

1.2 Changes to the scope of work

The Employer reserves the right to delete at any time before or during construction, and in his exclusive discretion, any section of any separate portion of the works (as specified in the Specifications and the Bill of Quantities) from the scope of this tender or any subsequent contract entered into between the parties.
Likewise, the Employer shall have the right to add an additional section or sections to any of the separate portions as specified.

1.3 Responsibility of the contractor

Until the Contract Works have been completed or deemed to have been completed the Contractor shall be responsible (subject to the Memorandum of Agreement and the Conditions of Contract), for the Contract Works, where under construction, during tests, or in use by the Employer.

The Contractor shall nominate a full time contract manager, with an electrical artisan's qualification, properly introduced and approved by the Engineer to manage this contract for the full duration of the contract.
During the period of maintenance, the Contractor shall make such arrangements as to ensure the attendance on Site within twenty-four hours of his being called upon to do so, of a competent representative for the purpose of carrying out any work or maintenance for which the Contractor shall be liable, and during such part of parts of the said period as the Engineer may deem it necessary the said representative shall be continuously available on the Site.
Work on the site shall be carried out at such times and during such hours as the Engineer may require.

1.4 Work co-ordination

The work in its entirety must be complete within the contract period as prescribed by the Special Conditions of Contract.

1.5 Site hand-over

Prior to the commencement of the work, the sites will be handed over to the successful Tenderer for the respective area. The hand-over includes a site visit to the project included in the Contract.
At the site hand-over the location of the Contractor's site office and camp will be discussed and determined if applicable.

1.6 Supervision

All work shall be executed under the supervision of the Engineer and in accordance with site instructions that will be issued to the Contractor by the Engineer.

1.6.1 SITE INSTRUCTIONS

A triplicate site instruction book will be issued to the Contractor at site hand-over. Specific instructions as to how work shall be executed will be entered into this book by the Engineer once the exact details of each portion of the work to be done have been determined.
All site instructions will be discussed with the Contractor.
The site instruction book must at all times be available at the Contractor's site office, so that the Engineer may write instructions even when the Contractor is not present.

1.6.2 SITE MEETINGS

Regular site meetings, at dates and times to be determined by the Engineer, will be held to evaluate progress and discuss matters pertaining to the Contract. It is not the purpose of such meetings to discuss matters concerning the day-to-day running of the Contract.
The Contractor or his authorised representative shall attend all site meetings, to which the Employer will also be invited. If not agreed to otherwise, these site meetings shall be held at the Contractor's site office.

1.6.3 INSPECTIONS

Site inspections will be conducted prior to the site meetings so that specific problems that are identified at the inspections may be discussed.
Whenever any section of the works is complete, the contractor must inform the Engineer of this in writing so that a site visit to inspect, measure, test or commission the completed section of the works may be arranged.

1.6.4 COMMISSIONING

The Contractor shall be responsible for commissioning all sections of the works and shall perform the tasks set out below:

Prior notice of and proper arrangements for the commissioning shall be made with the Employer as NORED Electricity, Engineer, Supply Authority, and all contractors and suppliers of equipment, which will be affected by the commissioning operation.

Plant and equipment, which has been supplied by others, has to be commissioned, the supplier's specific permission thereto, together

with any specific requirements relating to commissioning shall be obtained prior to commissioning.

All sections of the works shall be carefully inspected by a responsible representative of the Contractor to ensure that all construction and installation work has been properly completed.

In particular the following pre-commissioning checks shall be done:

- circuit breakers, fuse, cable and protective device settings and ratings
- wiring connections
- earthing conductors, connections and terminations
- removal of transport clamps and supports
- identification of all equipment

During commissioning the following shall be checked and the results entered into a written report, which shall be handed to the Engineer within 7 days from completion of commissioning of any section of the works:

equipment nameplate details including serial numbers, kVA rating, voltage rating, current rating, frequency, full load current and number of phases.

The Contractor shall carry out the tests specified in the Manufacturer's Works, on the site or elsewhere in accordance with the conditions thereof and such additional tests as in the opinion of the Engineer necessary to determine that the Contract Works comply with the conditions of this Specification, where under test or ordinary working conditions.

All materials used shall also be subjected to and shall withstand satisfactorily such routine tests as are customary in the manufacture of the types of plant or material included in the Contract Works,

Where, at the direction of the Engineer, tests and/or analyses are effected elsewhere than at the Works of the Contractor or a Sub-Contractor, or on the Site the costs incurred will be borne by the employer should such tests prove satisfactory, but the Contractor will be called upon to pay all expenses incurred by the Employer in respect of any work or materials found to be defective, or of inferior quality, adulterated or otherwise unacceptable.

The Engineer shall be given at least 7 days written notice of tests.

All tests shall be carried out in the present of, and to the satisfaction of the Engineer and at such times as they may require. The Contractor shall supply suitable test pieces of all materials as required by the Engineer. All labour, materials, fuel, stores, apparatus, instruments and connections required for the above tests shall be provided by the Contractor. All apparatus and materials supplied under the Contract are subject to inspection by the Engineer, who shall be notified 14 days in advance when the material is ready for inspection.

Tests to be carried out on site: -

Such other tests as are required by the Engineer to prove compliance with the Specification independently of any test which may already have been carried out at the Manufacturer's Works, or elsewhere.

Such tests as may be required by the Engineer to prove the load bearing capacity of foundations and stay anchors.

Soil resistivity test (if called for).

Insulation resistance test.

Continuity test.

Polarity test and Voltage test.

1.7 Standards

The work done shall comply with the following standards and regulations and has to be to the satisfaction of the Engineer and the Employer:

NORED Electricity's standard requirements and specifications, where applicable;

The local supply authority's Electricity Supply Regulations;

NRS 034

NRS 041:1995 (Code of Practice for Overhead Power Lines for Conditions Prevailing in South Africa);

SANS 10142 (Code of Practice for the Wiring of Premises);

Eskom distribution standard.

1.8 Detail itemised bill description (reference to the BoQ)

1.8.1 STREETLIGHTING – LUMINAIRES, CONTROLS, CABLING, LIGHT POLES

1.8.1.1 Hole excavation

For pole planting allow for 100% pickable soil unless otherwise indicated.

1.8.1.2 Streetlighting conductor – PVC SWA PVC Cu

This item comprises PVC/PVC/SWA/PVC grade 600/1000V copper conductor underground cables of various sizes. Stranded bare copper earth conductors shall be used as earth continuity conductors – only as indicated in the bill of quantities and as required.

- 16/10mm² x 4 core
- 6mm² x 4 core
- 4mm² x 4 core
- BCEW – as specified

1.8.1.3 T – Joints

600/1000 V Cable T-joints
The T-joints shall be of the compound filled type suitable for use with the cable specified above having number of cores and conductor sizes for run and T-off as stated in the attached schedules. The T-joints shall be supplied in kit form complete with all materials to make a complete installation.

1.8.1.4 Glands

The cable glands shall be suitable for use with the cables specified above. The size of the cable shall be as stated in the attached schedules. Glands shall be of the armour grip type, gripping the armouring by means of a conical fitting adjusted by a hexagonal head bushing. The gland shall be suitable for installation on a punched gland plate and shall be secured in position with a brass hexagonal nut. All gland components shall be fabricated from metal to ensure bonding of the armour wires. Steel components shall be replaced by suitable brass components.

1.8.2 GALVANISED STEEL STREET LIGHTING POLES

1.8.2.1 General Specification:

The contractor shall be responsible for setting out the pole positions. Approval of the positions shall be obtained from the engineer before the holes are excavated.
Excavation depths for planting poles shall be as stipulated for the poles. The pole holes shall be suitably sized to allow for working in the hole. Only the number of pole holes have been billed and the contractor shall allow for the actual excavation required.
Street lighting poles shall be planted vertical in all directions and in positions indicated on the specification drawings.

Terminal poles al all straight runs of poles shall be planted first after which, intermediate poles shall be planted to line up accurately with the terminal poles. Care shall be taken that the mounting height of all luminaires above final street level is equal and as required.

After the pole has been located in its hole, backfilling shall take place in stages. Each layer not exceeding 30 cm shall be well tamped before the next layer is applied.

Where the excavated material consists of broken rock, shale or loose sand and is not suitable for backfill the contractor shall be responsible and shall make provision in his rates to import soil for backfill to the approval of the engineer, and which consolidates perfectly. Surplus backfill shall be removed from site to a point approved by the engineer.

The street lighting cable shall be looped into each pole. The cable ends shall be made off inside the junction box to be provided on 5 terminal blocks. From the junction box mounted against the pole the luminaire shall be supplied by means of a 3 core 2,5 mm^2 cable (phase, neutral and earth). A 6 A miniature circuit breaker for the individual control of the luminaire shall be installed either inside the junction box at the bottom of the pole or the luminaire as agreed to by the engineer.

All street lights to be connected to a single street lighting feeder shall be distributed equally over the three phases and the expected load balanced.

Care shall be taken that the luminaire is fixed properly and that the axis of the luminaire is vertical to the line of the street.

1.8.2.2 STRAIGHT STEEL POLE (for Streetlighting)

This specification covers the supply, delivery and making up of steel street lighting poles to the following specification and as detailed on the drawing:-

The straight pole shall be continuously tapered and of circular cross-section.

Design and construction to SANS 0255-1991.

All tubing to SANS 657 – grade 250 Mpa. Unlimited tensile strength 450 Mpa.

Fabrication of poles to SANS 0214-1987. Design fabrication and inspection on articles for: Hot dip galvanizing to SANS 763.

The pole shall sustain, in addition to other loads, a maximum wind loading of 3 seconds gust wind at not less than 120 km/h on the exposed surface of the complete lighting installation.

The maximum permissible deflection at the top of the poles shall not exceed one fortieth (1/40) of the height of the pole.

The weight of the lantern that will be mounted is 20 kg with a vertical projected area of 0.33 m^2

The size and length of open –ended spigot required on the end shall be able to fit Side Entry (SE) luminaires, i.e. 42mm diameter, 125mm long.

The equipment mounting plate incorporated with the gland plate should be provided with one 6 A Shrouded MCB and 4 x UK 16N terminals with 2xE-UK stoppers all mounted on a Din Rail . The gland plate should be drilled with 3 only 3 x 25 mm^2 holes etc. Each pole shall have two cables entries (Opposite) 500 mm below ground level. The slot Shall measure 100x 50 mm.

The door shall be fitted with a waterproof cover plate to be secured by a recessed seven Side nut. Ventilation apertures shall be provided in the cover plate and shall be

vermin and weatherproof. All sections, parts etc. shall be hot – dipped galvanized after manufacture to SANS 763

Specification and shall be of pleasing aesthetic appearance.

The planting depth, plus 500mm of the pole, shall be painted with two coats of durable Epoxy tar paint after galvanizing. Plus a glass fibre sleeve.

The tenderer shall submit with his tender detailed engineering drawings together with a Copy of the relevant test certificate and shall give proof of the safety factor applied.

The pole shall be delivered complete with base plate,access door cover , fixing screws, outreach arm and hook bolts.

Steel poles to be supplied and installed with corrosion-protective sleeve around ground-height (300 mm above and 300mm below ground) - corrosion protection, sleeve covered fibreglass protective sleeve as protection, covered with bitumen), access cover at 700-800 mm above ground level.

Pole as specified, completely planted, pole top above groundlevel with 300x300x4 mm baseplate.

Supply cable to luminaire The supply cable to the luminaire shall be 3 core 4 mm^2 (Phase, Neutral, Earth) PVC SWA PVC cable terminated at the junction box and run along the pole through the bracket to the luminaire.

The tenderer shall submit with his tender detailed engineering drawings together with a Copy of the relevant test certificate and shall give proof of the safety factor applied.

The top of the terminals shall be covered with a gms plate overhag to prevent condensate water to drip on the terminal rails. Each pole shall have two cables entries (Opposite) 500 mm below ground level. The slot Shall measure 100x 50 mm.

1.8.2.3 The dimension of the pole offered shall be :

Mounting Height : 8,00m – 9.2m
Planting depth (not less than): 1,20M
Access door to control gear: 250mm x95mm
Height of access door above 500mm
Ground level 700 – 800mm
Base plates (not less than) 400mm x 400 mm x 4mm with 2 off M20 Hook Bolts

Pole:
Make: .....

Type: .....

Engineering drawings submitted: .....

Pole top spigot mounting adaptor:

Make: .....

Type: .....

Engineering drawings submitted: .....

1.8.3 STREET-LIGHTS / LUMINAIRES

1.8.3.1 Reference Documents

The following specifications and all amendments thereto must be read in conjunction with these specifications. However, in cases of conflict, the provisions of this specifications shall take precedence.

SANS 098	THE LIGHTING OF PUBLIC THOROUGHFARES
SANS 165	LAMP HOLDERS
SANS 1088	LIMINAIRES ENTRIES AND SPIGOTS
SANS 1222	Classification of degrees of protection provided by enclosures
SANS 1250	Capacitors for use with fluorescent and other discharge lamp Ballasts
SANS 1266	Ballasts for low pressure sodium vapour and high intensity discharge lamps
SANS 1277	Streetlighting Luminaires
SANS 1421	High pressure mercury vapour lamps
SANS 1464	The safety of luminaries : Part 1 General Requirements

1.8.3.2 Degrees of Protection

Luminaires shall have a degree of protection that complies with SANS 1222 and SANS 098: Part 1-1990 Code of Practice

Lamp compartment: IP66

Control gear compartment : IP66

The IP rating shall be silicone sponge rubber and shall not deteriorate due to heat, compression or irradiation and shall retain their seating in the luminaries on removal of the bowl.

1.8.3.3 Construction

The luminaries shall be compatible with either an aluminium or a galvanized iron mounting spigot, and dissimilar metal to metal contact should be avoided throughout the lumanaires. Spigot fastening shall be by means of two hexagonal-headed bolts, preferable of stainless steel.

The luminaires shall consist of a lamp compartment separated for thermal reasons from the control gear compartment and be designed to operate at 60/100W LED.

The housing shall be vandal and weather resistant, including hail.

The lamp holder shall be rated to withstand 240 degrees Celsius and prevent loosening of the lamps caused by vibration .

The spigot entries shall be according to SANS 1088:

- Side entry42 mm dia x 125mm long
- Bottom entry76mm dia x 75 mm deep

The luminaires supplied shall bear the SANS 1277 mark for streetlighting luminaires.

1.8.3.4 Optical System

The high impact acrylic bowl shall be held to the housing by a minimum of 3 clips to prevent accidental opening and shall not wrap or discolour due to lamp irradiation.

The bowl shall be hinged on the pole side of the fitting. The hinge and clips shall be made of stainless steel.
If adjustment is allowed for alternative lamps, the position for each particular lamp shall be clearly marked. Reflectors shall be of a high grade anodized aluminium, and shall have locating facilities to avoid mal-alignment. Where the reflector is adjustable for optical characteristics, these shall be clearly marked. The reflector shall have a minimum performance efficiency of 55%.

1.8.3.5 Control Gear.

Control gear shall be mounted and housed in a gear compartment separated from the lamp compartment of the luminaire and be suitable for operating with the specified rating of the lamp on a 230 V +6% -10% 50 Hz single phase system.
All electrical components shall bear the SANS mark.

1.8.3.6 WIRING

The luminaire shall incorporate a terminal block of non-corroding captive screws of not less than 3 mm diameter, to receive up to a 4mm square incoming cable .
The pre-wiring shall be of 1000-volt grade wire and be able to withstand the luminaire working temperature (asbestos type insulation is unsuitable) The body of the Edison screw type holder shall be connected to the neutral. Wiring shall comply with SANS colour standards and be clearly marked as such on the terminal block. All internal wiring shall be Teflon coated with sleeving to prevent damage by abrasion.

1.8.3.7 Standard Specification:

The luminaire shall bear the SANS 1277 mark and the SANS 1464 safety mark. Luminaire spigot entries shall comply with SANS 1088 - Table 1.
Side entry - 42mm ø x 125mm
Bottom entry - 76mm ø x 75mm
The luminaire shall have a degree of protection that complies with SANS 1222 and SANS 098: Part 1 - 1990 Code of Practice Table B-1:
Lamp compartment: IP66
Gear compartment: IP66
The IP ratings shall be certified by SANS test reports.
The housing shall be robustly constructed, weatherproof, hailproof, corrosion proof and vandal resistant. It shall be manufactured from filled ultra-violet stabilised engineering polymer and shall be grey in colour. An exterior lip of 7mm shall be provided on the lamp housing to avoid direct rain water contact with the gasket, thus ensuring that no moisture shall be sucked into the diffuser when the luminaire is switched off and cools down. The high-impact acrylic diffuser bowl shall have no external prisms and shall be held to the housing by three stainless steel clips. It shall remain attached to the housing when hinged open. The gasket sealing the lamp compartment shall be made of silicon sponge rubber and shall be fitted into a tongue and groove arrangement. Reflectors shall be manufactured from 99,98% super pure deep anodised aluminium and shall not be subject to accidental misalignment. A special reflector system for tubular lamps shall ensure optimum high performance. The lampholder shall comply with VC 8011, be rated to withstand 240°C and shall prevent possible loosening of the lamp caused by vibrations.

The gear compartment shall be covered by a hinged, non-corrosive lid, which shall fit into a silicon sponge gasket in the body, in a tongue and groove arrangement. Access to the gear compartment shall be gained from underneath by loosening one captive stainless steel screw (nylon in the double insulated version). The IP66 ingress protection rating shall ensure that all control gear components shall be protected against the ingress of dust and moisture, which shall lead to corrosion and premature failure. The control gear shall be mounted on a removable gear tray and shall be suitable for operation with the specified rating of the lamp on a 230V +3%/-10% 50Hz single phase system. All control gear components shall be removable and bear the relevant SANS mark. All internal wiring shall be Teflon® coated with protective sleeving to prevent damage by possible abrasion. All screws, bolts and metal parts shall be stainless steel or non-corrosive material. Ignitors, where applicable, shall be of the superposed pulse type. The luminaire shall be power factor corrected to a minimum of 0,85.

The separate spigot compartment shall house the screw terminal block and wire clamp. No access to the control gear compartment shall be required for installation, thus possible damage to the control gear shall be avoided. An optional down facing miniature daylight switch shall be fitted into this compartment, giving it protection against UV and ensuring extended service. Streetlights

Make: as per schedule for the selected BEKALED LUME OR EQUIVALENT

Model: .....

Guarantee: ..... years

SANS approved and to specification: ..... yes/no

OPERATING SPECS.	**Requirements**	**Equipment offered**
Operating voltage +10% & -6%	231	
Line Starting current –		
Line Running Current –		
Line running current with energy saver unit activated		
Frequency (Hz)	50	
Power Factor	0.9	
Power input to luminaire(watt)	State	
Output efficiency	State	
Loss in ballast(watts)	State	
Capacitor working voltage(AC)	250	
Type of insulation	State	
Luminaire duty cycle hours/day	12	
Control gear removable as a whole	Yes	

Optical requirements		
Type of light distribution		
Downward angle of max.intensity (vertical plan)		
Max. value of intensity emitted		
In vertical axis parallel to street		
At 90% Cd /100 Im		
At 80% (Cd / 100 Im)		
Max. intensity (Cd /100 Im)		
Total light output of luminaires (Im)		
Light output in lower hemisphere (im)		
Light output ratio efficiency		
Lamp inclination to spigot axis		

Luminaire details		
SANS 1277 Mark		
Gross mass (Including lamp) (kg)		
Mounting Type		
Min. spigot entry diameter (mm)		
Spigot entry length (mm)		
Spigot fastening bolts		

Date: _____

Company stamp: _____

Signature of Bidder: _____

1.8.4 PC ITEMS AND CONTINGENCIES

PC items as described in the Bill of Quantities.

1.9 Project and detail Drawings

Section 4 BILL OF QUANTITIES SCHEDULE

Procurement Reference Number: W/RFQ/ORC-01/2023

SEE ATTACHED BILL OF QUANTITIES ON THE NEXT PAGE.
The quantities shown are approximate and are subjected to re-measurement for payment purposes.

Bill of Quantities Schedule Authorised By:

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

Section 5 : SPECIFICATIONS AND COMPLIANCE SHEET

Procurement Reference Number: W/RFQ/ORC-01/2023

[Bidders should complete columns C and D with the specifications and performance of the Works offered. Also state "comply" or "not comply" and give details of any non-compliance/deviation to the specifications required. Attach detailed technical literature if required. Authorise the specifications offered in the signature block below]

Item No	Specifications and Performance Required	Compliance of Specifications and Performance Offered	Details of Non-Compliance/ Deviation (if applicable)
A*	B	C	D
1	Street-lighting galvanised poles 9.2 m		
2	Spigot adaptors		
3	Streetlight Luminaire – 88W LED on galvanized steel poles		
4	Circuit breakers		
5	LV surge diverters		
6	Distribution Kiosk		
7	Protection poles		
8	Cable glands		
9	Cable joints		
10	Terminal rails / blocks		
11	Photo cells		
12	Streetlighting contactors		
13	PVC/PVC/SWA/PVC LV cable		

Specifications and Compliance Sheet Authorised By:

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

Section 6 : General Conditions Of Contract and Contract Agreement

Any resulting contract shall be placed by means of a Purchase Order/Letter of Acceptance and shall be subject to the General Conditions of Contract (GCC) for the Procurement of Goods (Ref. **W/RFQ-GCC**) (attached, next page).

SECTION 7: SPECIAL CONDITIONS OF CONTRACT

Procurement Reference Number: W/RFQ/ORC-01/2023

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)	*OSHIKOTO REGIONAL COUNCIL*
Intended Completion Date GCC	The intended completion date is:
Project Manager GCC 1.1(y)	The Project Manager is: Mr. Simeon Antindi, PowerConsult CC Consulting Engineers
Site GCC 1.1(aa)	The Site is located at Oshivelo Settlement, Oshikoto Region and is defined in Drawings No: 9211/SL_ee01
Start Date GCC 1.1(dd)	The Start Date shall be:_____
The Works GCC 1.1(hh)	The Works consist of: Installation of low voltage (400V) underground cables, streetlight controls, galvanized steel poles (9.2m), control gear, and streetlight luminaires – 88W LED in Onayena Settlement.
Interpretation GCC 2.2	The project will be completed in the following sections: N/A
Interpretation GCC2.3	The following additional documents shall form part of the contract: _____
Language and Law GCC 3.1	The language of the contract is English The law that applies to the Contract is the law of Namibia.
Project Manager's Decisions 4.1	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 extension of time. This requirement shall be waived in an emergency affecting safety of personnel or the Works or adjacent property.
Delegation GCC 5.1	The Project Manager *may* delegate his/her duties.
Notices	Any notice shall be sent to the following addresses:

GCC Clause Reference	Special Conditions
GCC 6	For the Employer, the address shall be as given on the page 2 of this Bidding Document and the contact name shall be Mr. P. Ndawedwa, Director: Planning and Development, Oshikoto Regional Council. For the Contractor, the address shall be as given on the first page of the Purchase Order/Letter of Acceptance and the contact name shall be _____
Insurance GCC 13.1	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: (a) for the Works, Plant and Materials: (for *the full amount of the works including removal of debris, professional fee etc...)* (b) for loss or damage to Equipment: (*for the replacement value of the equipment that the contractor intends to use on site until the taking over by the Employer.* (c) for loss or damage to property (except the Works, Plant, Materials, and Equipment) in connection with Contract *for an amount representing the value of the properties that are exposed to the action of the contractor in the execution of the works. It will extend to the property of the Procuring Entity as well).* (d) for personal injury or death: (i) of the Contractor's employees:*[The Contractor shall take an adequate insurance cover for its employees for any claim arising in the execution of the works].* (ii) of other people: *[This cover shall be for an adequate amount for Third Party extended to the Employer and its representatives].* (e) for loss or damage to materials on-site and for which payment have been included in the Interim Payment Certificate, where applicable. 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 sole expense of the contractor.
Site Date GCC 14.1	The site Data shall be: **Onayena Settlement, Onayena Constituency, GPS coordinates – South 17.945580, East 16.201799 (decimal degrees)**

GCC Clause Reference	Special Conditions
Possession of the Site **GCC 20.1**	The Site Possession Date shall be: **within 28 days after Bid award**
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 court by either party.
Program **GCC 25.1**	The Contractor shall submit for approval a Program for the Works within ..... days from the date of the Letter of Acceptance or issue of Purchase Order Agreement.
GCC 25.3	Program updates *shall* be required..
Defects Liability Period **GCC 33.1**	The Defects Liability Period is: *365* days.
Payment Certificates **GCC 39.7**	"Payment shall be made as per progress of works *with* payment for materials on site".
Payments **GCC 40**	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: (a) the payment certificate; and (b) a certificate of Completion of the Works.
Adverse weather Conditions **GCC 41.1 (l)**	**Weather events in excess of the maximum rainfall for the month, for the applicable region as provided by the Namibia Meteorological Service**
Price Adjustment **GCC 44.**	The Contract *is not* subject to price adjustment.
Retention **GCC 45.**	(ii) 10% of the amount shall be retained from any payment. Half of the retention money will be released after 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.
Liquidated Damages	The liquidated damages for the whole of the Works are *0.015%* per day.

GCC Clause Reference	Special Conditions
GCC 46.1	The maximum amount of liquidated damages for the whole of the Works is *[amount based on a maximum number of days]*.
Bonus **GCC 47.1**	The rate for the Bonus per calendar day is: N/A
Advance Payment **GCC 48.1**	(i) No advance payment shall be made
Performance Security **GCC 49.1**	(i) A Performance Security in the form of a Bank Guarantee representing *10%* of the final contract price shall be required.
GCC 56.1	"As built" drawings or operating and maintenance manuals *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: *[15%]*

2: SCHEDULES

All SCHEDULES MUST BE COMPLETED. FAILURE TO DO SO MAY RENDER THE BID INVALID.

2 SCHEDULES

2.1 SCHEDULE 1 : QUOTATION CHECKLIST SCHEDULE

Procurement Reference No.: W/RFQ/ORC-01/2023

Description	Attached	Not Attached
Quotation letter		
Bill of Quantities Schedules		
Specification and Compliance Sheet		
Bid Security(if applicable)		
[Obligatory documents – good standing social security, tax, company registration, NORED Licence, etc]		

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.*