



REQUEST FOR INFORMATION (RFI): THE DESIGN AND MANUFACTURE OF ANTI-THEFT AND ANTI-VANDAL STREET LIGHT POLE SOLUTIONS

THE DESIGN AND MANUFACTURE OF ANTI-THEFT AND ANTI-VANDAL CONCRETE, GLASS REINFORSED POLYMER (GRP) AND STEEL STREET LIGHT POLE SOLUTIONS FOR THE CITY OF CAPE TOWN'S ELECTRICAL INFRASTRUCTURE.

1. Purpose

- 1.1. This is a Request for information (RFI) that relates to the anti-theft and anti-vandal concrete galvanised steel and GRP street light pole solutions (design and manufacture) offerings available in the market.
- 1.2. There is an urgent need for innovative solutions to be introduced to the City's street light network aimed at deterring acts of theft and vandalism.
- 1.3. The City of Cape Town is looking for information on concrete and GRP streetlight pole solutions available to prevent tampering and unauthorised access to the streetlight luminaire and cable.

2. Background

- 2.1. Theft and Vandalism of the electrical infrastructure in the City of Cape Town comes at a great financial loss to the City, due to repairs and replacements of vandalised equipment i.e. luminaires, poles and LV cables, etc.
- 2.2. A total number of 95 theft and vandalism incidents was recorded for the fourth quarter of 2024. The ongoing occurrences of theft and vandalism leaves the City vulnerable to constant electricity outages, crime, unplanned maintenances and service delivery backlogs. Moreover, poses great danger to the community as in some instances live wires would be left exposed leaving room for electrocution incidents to occur.
- 2.3. The City of Cape Town consists of three (3) areas namely; area East, North and South. Each Area is divided into districts and below are the districts for each:

- **Area East**

- Bloemhof District, Helderberg District, Oostenberg District and Parow District

- **Area North**

- Vanguard District, Atlantis District, City District and Mowbray District

- **Area South**

- Gugulethu District, Mitchells Plain District, Muizenberg District and Wynberg District

The pictures below show how the City's streetlight electrical infrastructure is currently being vandalised.



Picture 1 and 2 Luminaires Stolen



Picture 3 Pole Cover and Cables Stolen



Picture 4 Streetlight Pole Cut



Picture 5 Cable Theft



Picture 6 Streetlight Cable Stolen

3. Request for Information

- 3.1. This Request for Information (RFI) is not a request for proposal, request for quotation, offer or invitation for bid, nor does its issuance restrict the City of Cape Town in its eventual implementation activities.
- 3.2. The responses to the Request for Information will provide the City of Cape Town with information about products currently available in the market to support its required business capabilities.
- 3.3. The City of Cape Town may request additional information from the respondents and may request demonstrations or samples (proof of concepts) to be provided. It is therefore important that respondents provide accurate and honest information in their responses.
- 3.4. This Request for Information will be published with the aim of collecting information on multiple products and solutions offerings.

4. Timeline

The City is currently conducting research on available technologies, after which a decision shall be taken whether or not to publish a Request for Proposal.

- 4.1. RFI Release date: Thursday, 14 May 2025
- 4.2. RFI Closing date: Monday, 15 June 2025

5. Product and Solution Offering Information

In order for the City to understand which anti-theft and anti-vandal street light pole solutions are available, the following information is provided:

a. Applicable Standards

Unless otherwise stated or implied the poles shall comply with the requirements of:

- | | | |
|------------|---|---|
| SANS 470 | : | for Class 25L poles. |
| SANS 10225 | : | for the design and construction of lighting masts |

b. System Particulars

The poles are required for use on low voltage, 50 Hz, 3-phase, 4-wire overhead power line system.

c. Service Conditions

All poles and accessories supplied shall be suitable for continuous operation under the following conditions:

- | | | |
|--------------------------------|---|------------------|
| Altitude | : | Sea level – 300m |
| Minimum temperature | : | -5 °C |
| Maximum temperature | : | 45 °C |
| Average daily mean temperature | : | 25 °C |

The poles and accessories will be exposed to salt-laden atmosphere and high winds.
 The regional basic design wind speed shall be taken to be **44 m/s**
 the design shall be such as to ensure maximum protection against corrosion.

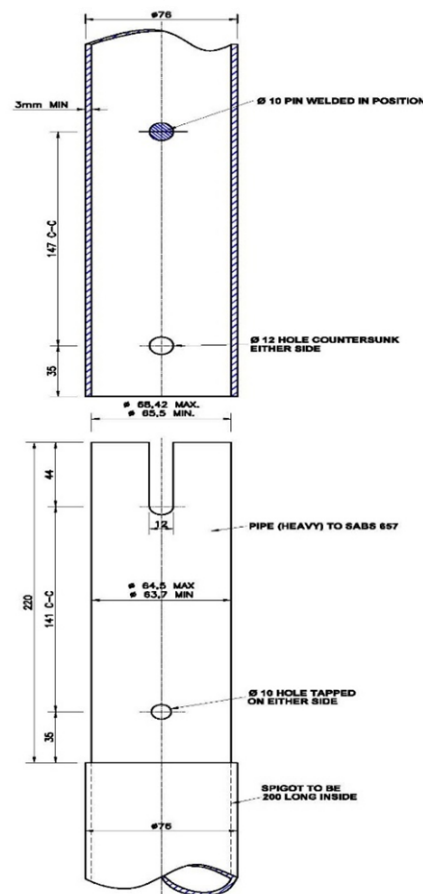
d. Design

The poles shall be manufactured to the details as designed by a professional registered engineer. The external surface of the poles shall be homogeneous, smooth, clean, true and free from all defects. Each pole shall have two cable slots below ground for cable entry.

The cable slots shall be clean and clear of any obstructions. There will be **no access opening** for termination of cables. Cables will run up the inside of the pole into a pole top kiosk or the luminaire. (35mm² Al PVC PVC SWA PVC cable). This device should be installed at a sufficient height to prevent accidental contact and minimize the risk of injury to the public.

The pole design must allow for the fixing of a street light control kiosk at the top of the pole.

Pole design shall allow for the installation of Aerial Bundel Conductor (ABC) up to a 5 core 25mm² ABC; 3 – core, 1 – covered neutral and 1 - street lighting conductor, in areas with high theft incidence. Include holes or “fixings” for 16mm diameter threaded ABC fixings at the pole top with sleeves. To allow interchangeability between pole stems and outreach arms, the pole top spigot outer diameter should be between 64.5mm max and 63.7mm min. (see typical pole top dimension drawing)



TYPICAL DETAIL OF
 OUTREACH FIXING

The maximum horizontal and vertical deflections of the poles at the spigot when subjected to the design loads due to wind and to the self-weight of a double outreach arm and 2 luminaires shall not exceed the amounts specified in SANS 10225:

Mounting Height	No. of luminaires on each outreach arm	Mass of each luminaire kg	Projected area of each Luminaire m ²	Maximum permissible deflection under design loads	
				Horizontal mm	Vertical mm
8 m pole with a 2 m outreach	1	15	0,2	SANS10225	50
10 m pole with a 2,5 m outreach	1	15	0,2	SANS10225	50

Table 1

e. Particulars

Respondents shall submit full particulars and technical details of the poles offered together with a description of the method of manufacture.

f. Marking

Markings shall comply with the requirements of SANS 470 and shall be at a point 1.5 m above the designed ground level of the pole with an impression.

The designed ground level shall be clearly marked with an indelible line on the pole.

The service providers are required to provide information, including the design calculations signed approved by a professional registered structural engineer, on the proposed anti-theft and anti-vandal solutions in line with the City of Cape Town's existing electrical infrastructure along with the requirements mentioned above.

NOTE: Although the RFI requests the submission of information according to the abovementioned scope, the RFI process allows for additional information, solution proposals, and technologies to be included.

6 Required Information

6.1. The market research aims to gain insight into availability of suitably experienced providers that are able to respond to the request for the anti-theft and anti-vandal solutions for the City's electrical infrastructure.

6.2. You are required to provide the information in the table below with supporting documentation as specified:

Item	Requirement	Service Provider to Complete
1	Name of Entity	
2	Address of Premises of the Entity	
3	Are you able to provide an anti-theft and anti-vandal street pole (with pole specification indicated above). Please provide full details of the solution available.	
4	Full particulars and technical details of the anti-theft and anti-vandal street pole	
5	Structural design calculations the anti-theft and anti-vandal street pole	
6	List of work/projects carried out in anti-theft and anti-vandal products in similar nature of work as stipulated above. (Attach proof of Service rendered with reference to anti-vandal products in a form of reference letters from clients)	
7	List of suitable qualified resources including professional engineers and supervisors (Attach CV's to the submission)	
8	List of transport and plant suitable for the specified work. (Attach detailed list to the submission)	
9	Provide information relating to the pricing structure of the product and indicate pricing as per the below:	

Item	Requirement	Service Provider to Complete
	<ul style="list-style-type: none"> • How is the pricing of the solution structured? • Is the pricing once off and perpetual? And is the pricing per item or category? • Based on the above, please provide an indication of pricing for the solution to be implemented (including supply, install and commissioning). 	
10	Are you able to provide proof of concept samples as indicated below?	

7. Interaction with Respondents

- 7.1. Respondents are advised that the City of Cape Town reserves the right not to utilise information gathered during the request for information process in order to complete a specification, which is to be put forth for tendering.
- 7.2. Send any questions to phillipus.jacobs@capetown.gov.za should you have any queries.

8. Proof of Concept

- 8.1. The City of Cape Town reserves the right to engage respondents to look at different methods to validate and test information provided in response to this RFI. This may include a request for a proof of concept samples (10 poles). This will not result in any financial contribution towards proofing the respondent(s) concept but will allow the City of Cape Town to engage after the conclusion of this RFI with the aim to ensure the information provided is validated and tested.

9. No Obligation

- 9.1. This RFI places no obligation on the City of Cape Town to embark on any subsequent process to obtain any product or solution offering listed herein and respondents hereto shall obtain no preference or favour by responding to the Request for Information.
- 9.2. The City of Cape Town is bound by relevant legislation and formal procurement and other procedures and therefore will follow these procedures should a need arise to procure any technologies in the future.
- 9.3. Responses to this RFI are voluntary. Do not include any proprietary, classified, confidential, trade secret, or sensitive information in your response. The responses will be reviewed by City staff, and

individual feedback will not be provided to any respondent. The City of Cape Town will use information submitted in response to this Request for Information at its discretion. The City of Cape Town reserves the right to use any submitted information on its public websites, in reports, in summaries, in any possible resultant solicitation(s), grant(s), or cooperative agreement(s), or in the future development regarding this subject.

- 9.4. This RFI is for information and planning purposes only and shall not be construed as a solicitation, grant, or cooperative agreement, or as an obligation on the part of the City of Cape Town. The City of Cape Town will not pay for the preparation of any information submitted or for the use of such information nor undertakes to protect what the respondents deems to be proprietary or intellectual property. No basis for claims against the City of Cape Town shall arise as a result of a response to this request for information or from the use of such information.
- 9.5. The research obtained from this RFI will inform the technical and functional specification of the proposed goods and services to be obtained, which may then follow an open competitive bidding process, should the City of Cape Town opt to implement such a system (Viability and Feasibility assessment, budgetary provisions, etc.). The City of Cape Town reserves the right not to proceed with any further process, should the research/technology indicate it is not a priority, viable and/or feasible. The City of Cape Town reserve the right to applied different procurement strategies, while exploring different methods to validate and test information provided in response to this RFI.

10. Submission Requirements

Please provide all inputs electronically on or before **16:00 on Monday, 15 June 2026.**

- 10.1. All responses to be sent: phillipus.jacobs@capetown.gov.za
- 10.2. Email subject line: RFI156/2025/26 response from [Insert company name]
- 10.3. Response format: PDF or MS Word
- 10.4. Length: +/-20 pages including support documentation.

Thank you

Demand Management

Directorate of Finance

Department of Supply Chain Management