

Request for proposal for Electric Perimeter Fence

Customer/Owner: Kathu Solar Park PTY LTD

Contacts:

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Site: 5 km west of N-14 on the T-25 (dirt track). Turnoff of N14 is 10 km east of Kathu, between Kathu and Kuruman

Time of completion: (Exact time subject to confirmation)

Date of RFP update: 13/12/2018

Details:

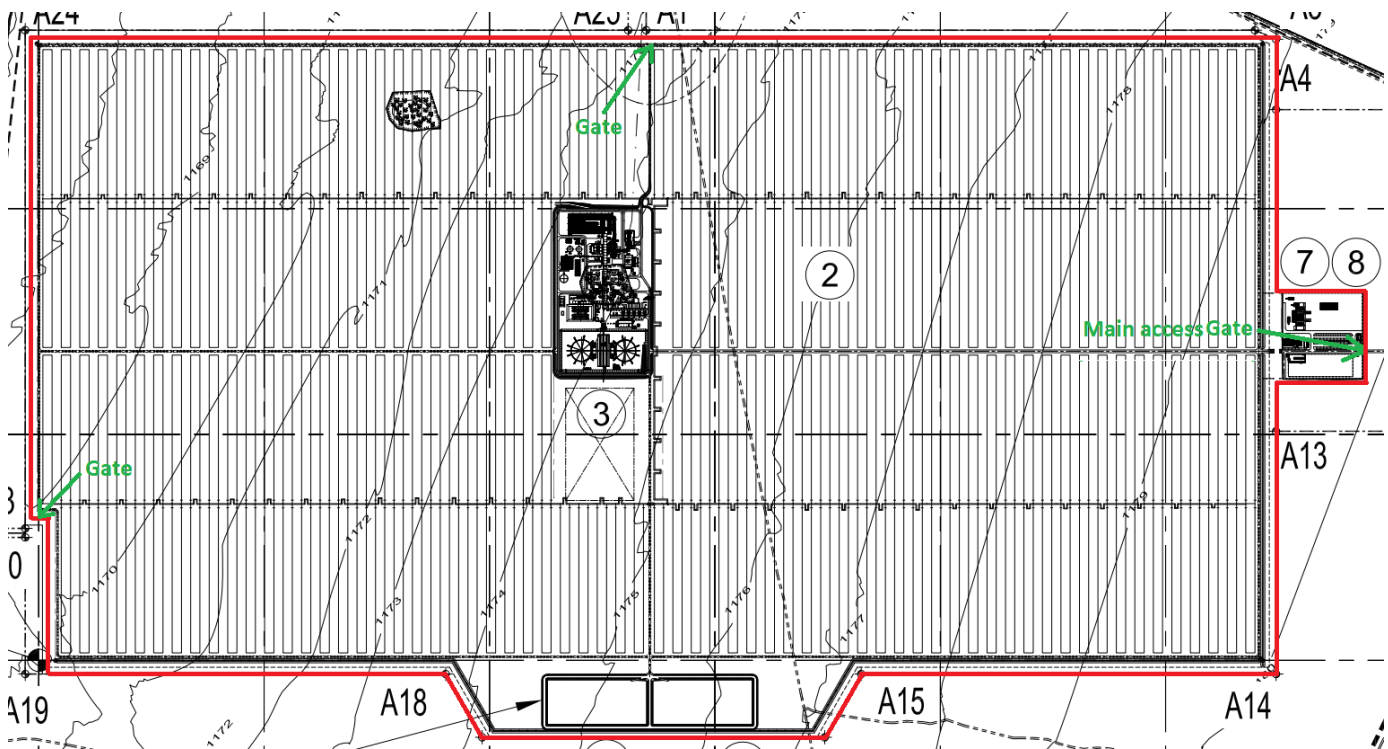
The site is an industrial solar power plant that is about 4300 Hectares. The current fence is a wire mesh fence with razor wire on top. We would like to install an additional perimeter fence with a “no-man’s land” between the two fences. The additional fence should be installed on the inside of the current perimeter fence. There are 2 options that we are requesting a proposal and quotation for:

- Option 1 – An 8ft 22 strand electric fence with corrosion resistant stainless steel electric braided wire (or other wire as required) around the entire facility perimeter. A standalone fence on the outside of the facility with a 4m no-man’s land or piggyback fence is on the current perimeter mesh fence is acceptable. This fence must be solar powered with battery back-up and have zone detection capabilities if an alarm is triggered.
- Option 2 – An 8ft diamond razor mesh fence around the entire facility. A standalone fence on the outside of the facility with a 4m no-man’s land or piggyback fence is on the current perimeter mesh fence is acceptable.

Note that the specific details of the fence are open to discussion. For example, the zone sizing and wire material selection should be proposed in the proposal with relevant motivation for your selection. Send us an email (to both contacts mentioned above) with questions if necessary.

The length of the perimeter fence is estimated to be 8.8km and there will be three access points. For two of these, we require a manual access gate (these will not be used often and should be able to be de-energised for access). The third access point is the main plant entrance where we require electrification strands above the existing motorised gate and turnstiles.

The attached document indicates the coordinates of the corner points of the current fence. This document can be used to calculate the distances, however, it should be noted that the new fence will be on the inside and will be slightly shorter. The access gate positions are indicated on the document. There is also an additional area to be included in the fenced area which is shown in page 2 of the attachment “KAT1-SRTU-PM-0001_r06 General Arrangement.pdf” as well as in the image below.



Power supply on this site is not easily available. We do not have the expertise to be able to make an evaluation on how to power the system, but we require a proposal to be made for using currently available power sources (not easily available) as well as a proposal for solar power as an energy source.

The area has already been graded, but all other civil and engineering works are to be included in the proposals, including posts, post anchors, gate mechanisms for the two access gates, etc. It is also a requirement that the fence is compliant with SANS regulations and standards in every aspect.

The current fence dimensions can be found in the attachment “KAT1-LITO-PC-0052 r01 Wind Fence situation.pdf”. It is seen in this document that there is also a wind fence on the east and west sides of the field. The two 7 meter gates (north and west) and the current 10 meter opening in the east wind fence are also shown. The 10 meter opening in the eastern wind fence is inside the perimeter because the fence goes around the permanent facilities area which can be found on page 4 of “KAT1-SRTU-PM-0001_r06 General Arrangement.pdf”.

Project Scope:

- Engineering requirements
 - Civil, mechanical, electrical and I&C drawing as applicable
 - As-built drawings on completion
 - System description and operational strategy
- Procurement and construction
 - Supply and construction of electric fence in compliance with SANS regulations
 - Power supply (solar)

- Energisers
- Support structures if necessary
- Alarm activation system with control room interface
- Other necessary equipment
- Post construction
 - At least 1 year maintenance plan and operational support
 - Operations and Maintenance Manual

A site visit is required in order for more tender information to be obtained and for further project discussion. Since we are expecting multiple proposals, we will conduct a bulk site visit on Wednesday 19 December 2018. If you would like to attend, we need a copy of your ID sent to razaz.basheir@kathusolarpark.co.za

The closing date for proposals has been extended to 16 January 2019.