
	Request for Information (RFI) PV installation and commissioning	Document Identifier	240-72663051	Rev	1
		Effective Date	01 August 2016		
		Review Date	October 2027		
		EOI/RFI Number	MWP3001DX		

PART A REQUEST FOR INFORMATION (RFI)	
Description of the works/goods/services	<p>1. Purpose</p> <p>This request for information is intended to assess the potential for Eskom Distribution to develop partnerships with PV suppliers and installers as part of its initiative to provide PV solutions to consumers.</p> <p>Potential suppliers and installers of PV solutions are invited to submit information on their PV installation and commissioning capability as well as indicative pricing for budgeting purposes.</p> <p>We request suppliers to provide information on possible systems available as well as the cost for the supply and of these systems.</p> <p>It is important to note that alternative specifications are welcome for consideration.</p> <p>Products and services</p> <p>Supply, installation, and commissioning Capability of the total rooftop PV solution for at least the following sizes:</p> <ul style="list-style-type: none"> • 5 kVA • 8 kVA • 16 kVA <p>The solar PV components will include the following:</p> <ol style="list-style-type: none"> a) Hybrid Inverters b) Battery banks (Energy Storage System) c) Solar Panels d) PV Combiner Board e) Distribution Board f) Training <p>Integrated solar energy management system compatible with Eskom systems.</p>

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2. Deliverables

- Supply and installation of total PV rooftop solution
- Maintenance of installed PV rooftop system / Conduct training for the maintenance of the system for the period of at least 12 months after installation handover
- Provide detailed design with drawings of the solar PV Power system for approval.
- Starting-up and final commissioning of the system and providing test certificates, in coordination with specific standards.
- Lifespan of the solar should be 25 years and the solution be fully upgradeable to extend lifespan.

- The system shall support a detailed, low-level data and information view of each component / device (e.g., inverter, BESS, control units, etc.) in the system. This level should expose all possible data from, and send settings and controls to, the equipment / devices.
- No internet connection shall be allowed to enable any functionality detailed in this section.
- The REA system will eliminate any direct access needed to any equipment to monitor, affect setting changes, or perform controls.
- Remote engineering access which may include data retrieval and configuration shall be provided for the following systems/devices which include but is not limited to:
 - a) Fire Detection and Suppression
 - b) DVR/Video Surveillance
 - c) Inverters
 - d) Battery Management System
 - e) Protection devices

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	<p>f) SCADA Gateway</p> <p>g) Generator System</p> <ul style="list-style-type: none"> • As required, Modbus RTU/Serial ports shall be encapsulated within TCP/IP utilising Serial Device/Port Servers and directly made available to the REA system. • Should this Remote Engineering Access (REA) solution include the use of network devices (switches/routers/serial port servers) as well as telecommunications modems/routers, Eskom standardised equipment shall be used in the solution unless a more cost effective/optimised solution is offered. <p>3. Scope of Work</p> <ul style="list-style-type: none"> • The Partner is responsible for consumption load recordings, design, engineering, manufacture, training, procurement and supply of all materials and labour, delivery to site, offloading, construction, erection, installation, off-site testing, on-site testing, commissioning, performance testing, provision of samples, preparation of all detail design drawings, as-built record drawings (As per Eskom requirements), maintenance manuals and instructions for the works, in accordance with the general requirements and performance requirements as detailed in this document. All works to be signed off by an ECSA accredited professional engineer. • The partner shall provide Eskom with all the required asset governance documents, including, but not limited to: • Concept design (Including the calculation of the optimum size of the installation and load recordings) <ul style="list-style-type: none"> • Design philosophy • Detail design, and design training. • Test certificates
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	<ul style="list-style-type: none"> • Bill of quantities • Bill of materials • Design and as-built drawings • Commissioning documentation • Maintenance (all types) manuals, fault finding manuals, maintenance training. • QEM documents • Environmental impact studies • SHEQ documentation • Checklists • The partner shall apply and obtain Eskom's Grid access approval in Eskom supply areas, or approval from the local municipality in municipal supply areas. • The partner shall also obtain design approval from Eskom National design review governance committees (DRT approval). • The scope of work also includes the Operating and Maintenance (O&M) activities during first 12 months of operation, with the option to extend this period, and then to hand over the asset to Eskom after the initial or extended periods. • The partner shall provide a list of parts that must be kept as spares for the Maintenance and repair tasks contemplated above. • The scope of work also includes training of relevant staff in the Operating and Maintenance of the system since commencement of the O&M contract period, and to facilitate hand over to Eskom at the end of the initial 12 month12-month period.
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	<ul style="list-style-type: none"> • The partner provides the works as per this document as well as a complete Quality Management plan as per [2], 240-105658000 Supplier Quality Management Specification. • The partner shall apply sound, recognised and current engineering practice in all designs, drawings, manuals, etc., and where these may deviate from the requirements in this document; such deviations shall be suitably motivated and substantiated by the partner. • The partner shall provide a complete list of specifications that will apply to the system or any of its sub-components. This document contains a list of current Eskom, national and international standards that apply to the design, procurement, construction, commissioning maintenance and operating of a Solar PV and BES system. The partner may deviate or apply different comparable standards which should be clearly indicated and motivated in the submission of tendering documents. • The partner shall inspect the selected site and buildings to determine all statutory requirements and site-specific detail for such a system to ensure compliance to statutory requirements. • The partner shall identify all maintainable items and spares for the system. Where an existing Eskom equipment standard applies, the contractor shall ensure that this equipment is installed, and spares be kept. • The partner shall provide checklists templates to perform verification of the design, installation, and commissioning of the Solar PV plant in accordance with all relevant standards and statutory requirements. • The partner shall complete checklists to verify that the Solar PV installation was designed, installed, and commissioned in accordance with all relevant standards and statutory requirements. <p>4. Training</p>
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	<ul style="list-style-type: none"> • The partner is responsible for the training of Eskom staff during the design, construction, operation, and maintenance of the PV Plant. • Training is an essential requirement from the Employer and can be in the form of Classroom and on-job commissioning. The partner needs to identify the required training to operate and maintain the plant. The purpose of this training is to gain experience and exposure to the day-to-day operations and maintenance activities. • All training material to be submitted to Eskom Dx shall be in printed and digital format. • This includes training material for Operators, Engineers, and Technicians. The training material provided for Engineers are required to be detailed to the level of a System Engineer. Engineers are required to be able to fully configure any system of the PV installation, including the Control and Monitoring System (CMS). • The partner provides training in the following manner: • Training on Design, Construction and Commissioning: Introduction to Project design, construction and commissioning on the project and equipment is provided by the partner prior to Substantial Completion of the PV Plant, such that those Employer representatives who will be at the site during normal working hours are enabled to safely shut down and/or ramp-up the plant, should that be required. • This training is classroom based. The classroom training sessions are intended to provide concentrated instruction in the design, capability, operation, inspection, and control of the equipment and systems within the project. (All calculations must be provided.) Access to design software must be provided for a period of two years after completion of installation. • Training on Operation and Maintenance: Formal classroom and on-site training of the operations and maintenance of the plant is essential to
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	<p>ensure the Trainees have a sound understanding of the plant functionality and O&M requirements.</p> <ul style="list-style-type: none"> • Training must be provided for a period of 12 months on an ad-hoc basis. This training period must be divided in a pre and post commissioning period. The training will be for a minimum of ten Eskom employees. • All classroom training sessions are videotaped by the Employer at its expense for future use as an orientation/teaching aid during the commercial operating period. <p>5. Technical Requirements</p> <p>5.1 System Description</p> <p>The major equipment includes the following:</p> <ul style="list-style-type: none"> a) Hybrid Inverters b) Battery banks (Energy Storage System) c) Solar Panels d) PV Combiner Board e) Distribution Board f) Training g) Integrated solar energy management system compatible with Eskom systems. <p>5.2 Inverters</p> <p>5.2.1 The inverters shall be of the hybrid type (bi-directional) that are able to accept power from various power sources (i.e. PV panels, wind generators, batteries, standby generators and the grid) and optimally manage the energy from these power sources to ensure a reliable AC supply to the connected loads.</p> <p>5.2.2 Hybrid inverters shall exclusively be used in the solution, utilising a single internal DC bus and single DC to AC inverter step.</p>
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	<p>5.2.3 Only inverters producing pure sine waves shall be used.</p> <p>5.2.4 Inverter systems shall include their own built-in control and protection system.</p> <p>5.2.5 Inverters shall support communication to external data-loggers using the protocols and interfaces specified in section 3.6 of this document.</p> <p>5.2.6 Inverters shall support a dedicated generator input, capable of accepting the inverter's full rated continuous power output. This input shall also support the charging of batteries.</p> <p>5.2.7 Individual PV string level monitoring will be provided by the system.</p> <p>5.2.8 The inverter shall have a user friendly, access controlled, Human-Machine Interface (HMI) that allows the user to read settings, configure setpoints and control the inverter based on the user's level of access.</p> <p>5.2.9 The HMI shall indicate the system status and raise local warnings and alarms visually and audibly.</p> <p>5.2.10 The inverter shall be able to function as an off-grid (grid forming) inverter or a grid-tied (grid-following) inverter dependent on the application.</p> <p>5.2.11 The inverters shall be able to operate in parallel.</p> <p>5.2.12 The inverters shall be single-phase or three-phase.</p> <p>5.2.13 The output voltages shall comply with requirements as stipulated in SANS 10142-1 - The wiring of premises Part 1: Low-voltage installations.</p> <p>a) 230V \pm 10% for single-phase systems,</p> <p>b) 230/400V \pm 10% for three-phase four-wire systems.</p> <p>5.2.14 Inverters that are designed as single-phase units shall be able to be configured to operate as a three-phase, multi-unit system.</p>
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	<p>5.2.15 The inverters shall be wall-mounted or suitable for mounting in either a floor standing or wall mounted cabinet.</p> <ul style="list-style-type: none"> Inverters shall be equipped with volt-var control and frequency control modes in addition to the normal category A Grid Code requirements (Grid Connection Code for Battery Energy Storage Facilities (BESF) Connected to the Electricity Transmission System (TS) or the Distribution System (DS) in South Africa, Version 5.3, March 2023). <p>5.2.16 The inverter shall comply with the requirements of the following technical standards:</p> <ol style="list-style-type: none"> SANS/IEC 62109-1, Safety of power converters for use in photovoltaic power systems – Part 1: General Requirements. SANS/IEC 62109-2, Safety of power converters for use in photovoltaic power systems – Part 2: Particular requirements for inverters. NRS 097-2-1, Grid Interconnection of Embedded Generation – Part 2: Small-scale Embedded Generation – Section 1: Utility Interface <p>5.3 PV Panels</p> <p>5.3.1 Crystalline silicon (c-Si) based PV modules shall be used.</p> <p>5.3.2 The specified usable peak output power is applicable at the start of operations, post commissioning and handover.</p> <p>5.3.3 To ensure efficient use of space, module efficiencies shall be at least 19% at a Standard Test Condition (STC) of irradiance 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.</p> <p>5.3.4 For each 18 to 24 cells within a module, a bypass diode shall be implemented.</p> <p>5.3.5 Within the first year, the actual output power of PV modules shall be within 3% of its rated capacity.</p>
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	<p>5.3.6 Modules shall not decline in output power by more than 0.8% per year from year 2 to 20, this shall be warranted by the OEM.</p> <p>5.3.7 The PV panels shall comply with the requirements of the following technical standards:</p> <p>a) IEC 61215 Ed.2, Crystalline silicon terrestrial photovoltaic (PV) module - Design qualification and type approval.</p> <p>b) IEC 61730-1 Ed.1.2, Photovoltaic (PV) module safety qualification - Part 1: Requirements for construction.</p> <p>c) IEC 61730-2 Ed.1.0, Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing.</p> <p>5.4 Battery System</p> <p>5.4.1 Batteries will be subjected to daily cycling, barring less favourable weather conditions.</p> <p>5.4.2 Cycling shall include micro-cycles, as demand and supply fluctuate from time to time.</p> <p>5.4.3 Batteries shall support at least 5000 cycles until it reaches 80% of its original (full and usable) capacity. The usable capacity at this (end) cycle-life shall be specified.</p> <p>5.4.4 An always online cell-balancing mechanism shall be available to ensure the battery's capacity is not compromised by an imbalance. No manual intervention should be required to balance the cells.</p> <p>5.4.5 The storage solution shall be able to restart and continue normal operations following a complete discharge of all useable capacity, without any manual intervention. Therefore no "activation" of fully discharge batteries will be required.</p> <p>5.4.6 The BESS shall support momentary over-current conditions, as example due to inrush currents from large, switched load equipment. At</p>
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	<p>minimum a 10% overload for 1 minute will be supported. Both batteries (or their configuration) and their inverters shall support this.</p> <p>5.4.7 Batteries shall be stacked and / or housed in a suitable enclosure, depending on the location.</p> <p>5.4.8 All statutory and other mandatory requirements regarding safety, such as fire protection systems; and electrical fire, safety, incident response and security protocols shall be strictly adhered to, and in no way compromised by the solution.</p> <p>5.4.9 The battery BMS and Controllers shall support communication to external data-loggers using the protocols and interfaces specified in section 3.7 of this document.</p> <p>5.4.10 The battery shall comply with the requirements of the following technical standards:</p> <p>a) SANS/IEC 62619:2022, Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for secondary lithium cells and batteries, for use in industrial applications.</p> <p>b) IEC 63056 Ed. 1.0 b:2020, Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes – Safety Requirements For Secondary Lithium Cells And Batteries For Use In Electrical Energy Storage Systems.</p> <p>5.5 AC & DC Reticulation System</p> <p>5.5.1 The AC and DC circuit breakers, contactors and switches shall comply with the relevant parts of SANS 60947 series of standards.</p> <p>5.5.2 Fuse-links for the protection of solar Photovoltaic (PV) energy systems shall comply with all the requirements of SANS 60269-1, Low-voltage fuses Part 1: General requirements and SANS 60269-6:2021, Low-voltage fuses Part 6: Supplementary requirements for fuse-links for the protection of solar photovoltaic energy systems.</p>
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	<p>5.5.3 The PV wires shall comply with SANS 62930, Electric cables for photovoltaic systems with a voltage rating of 1,5 kV DC.</p> <p>5.5.4 The DC connectors for the PV wires shall comply with SANS 62852, Connectors for DC-application in photovoltaic systems - Safety requirements and tests.</p> <p>5.6 Remote Engineering Access</p> <p>5.6.1 The system shall support a detailed, low-level data and information view of each component / device (e.g., inverter, BESS, control units, etc.) in the system. This level should expose all possible data from, and send settings and controls to, the equipment / devices.</p> <p>5.6.2 No internet connection shall be allowed to enable any functionality detailed in this section.</p> <p>5.6.3 The REA system will eliminate any direct access needed to any equipment to monitor, affect setting changes, or perform controls.</p> <p>5.6.4 Remote engineering access which may include data retrieval and configuration shall be provided for the following systems/devices which include but is not limited to:</p> <ul style="list-style-type: none"> a) Fire Detection and Suppression b) DVR/Video Surveillance c) Inverters d) Battery Management System e) Protection devices g) Generator System <p>5.6.5 As required, Modbus RTU/Serial ports shall be encapsulated within TCP/IP utilising Serial Device/Port Servers and directly made available to the REA system.</p> <p>5.6.6 Should this Remote Engineering Access (REA) solution include the use of network devices (switches/routers/serial port servers) as well as</p>
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	<p>telecommunications modems/routers, Eskom standardised equipment shall be used in the solution unless a more cost effective/optimised solution is offered.</p> <p>5.7 Historian</p> <p>5.7.1 Where applicable, a Rooftop PV solution should include a localised historian. If such provision is not possible, the Rooftop PV solution should be able to send data to an off-site/centralised historian.</p> <p>5.7.2 All process related data will be stored and retained for use and integration with other systems.</p> <p>5.7.3 The historian should support retention of data for a period matching the lifecycle of the plant.</p> <p>5.7.4 The historian should serve the following functions:</p> <ul style="list-style-type: none"> a) Storing of time series data b) Enable advanced analysis of process data c) High quality production reports d) Ability to interface to other business systems, including Enterprise Historian <p>5.7.5 The localised historian should support a variety of tags, allowing it to interface with sensors. These sensors should provide the following metrics:</p> <ul style="list-style-type: none"> a) Process data b) Equipment performance data c) Alarms and events d) System load/consumption and production e) Operational data – actions and commands f) Configuration data g) Maintenance/Asset health data
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	<p>h) Environmental data (Weather, temperature, humidity, etc)</p> <p>5.7.6 The format in which the time series data is stored should be tabulated in the format below or similar:</p> <p>a) Time-stamp – the date and time when the entry was captured</p> <p>b) Tag Name – the name of the sensor or measurement</p> <p>c) Value – the value of the measurement</p> <p>d) Quality – an indication of the data quality</p> <p>e) Comment/Annotation – comments and notes to be kept</p> <p>5.8 Metering & Load Management</p> <ul style="list-style-type: none"> Eskom to supply and install meters compatible with its SCADA system. <p>5.9 Structure</p> <ul style="list-style-type: none"> The preferred option shall be a roof top structures (that can be new or replaces the existing). The roof structures must be evaluated to determine if these are structurally sound to install the proposed PV panels and associated equipment. The following, but not limited to, must be considered when determining if the roof or steel carport structures are suitable: Live and dead loads of PV panels. Wind load of PV panels. <p>d) The structures shall be designed for harshest expected environmental conditions and corrosion protection requirements.</p> <p>e) The structural material shall be minimum 6mm, 3CR12 or stainless steel or suitable corrosion resistive materials.</p>
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	<p>a) The Tender may recommend additional protection and mitigation measures to protect the BESS (both outdoor and indoor) against any other significant risks as identified by the Tenderer. These mitigation measures shall be stated by the Tenderer in the tender submission.</p> <p>b) The Tenderer shall submit a draft layout of the colour scheme, logos, and the wording to Eskom</p> <p>5.10 Information Requirements to be submitted:</p> <p>(1) Company Profile</p> <p>(2) Technical capabilities</p> <p>(3) Geographic preferences</p> <p>(4) Market Experience and reference solutions</p> <p>(5) Technical documents including specifications and certifications</p> <p>(6) References</p>		
Clarification	<p>A non-compulsory clarification meeting will be held on (21 February 2025)</p> <p>Time :10h30 – 12h00(SAST)</p> <p>Join the meeting now</p> <p>Meeting ID: 331 126 337 063</p> <p>Passcode: 3BA6vF6k</p>		
Deadline for submission	20 March 2025	At (South African Standard Time)	10:00 am
Tender Office address	<p>Eskom Holding SOC Ltd</p> <p>The Tender Office</p> <p>Megawatt Park Tender Office - Northside</p> <p>No. 01 Maxwell Drive</p> <p>Sunninghill</p> <p>Gauteng</p>		

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Eskom Holdings SOC Ltd (“Eskom”) invites you to submit an:

- **Request for information (RFI)** to submit information for the works/goods/services as stated in the table. This RFI is a stand-alone information-gathering and market-testing exercise, intended only to inform and assist Eskom’s further deliberation and development of a strategy for the [Drafting note: insert name of project]. Eskom may request indicative prices if so stated in this RFI.

Eskom has delegated the responsibility for this **RFI** to the signatory of this document, whose details can be found below.


We look forward to receipt of your response.

Yours faithfully

Name	Designation	Signature	Date
Khutso Sebea	Graduate-In-Training P & SCM		11 February 2025
Telephone number	+27 11 800 6712	Fax and/or e-mail address	Sebeakb@eskom.co.za

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	Request for Information (RFI) PV installation and commissioning	Document Identifier	240-72663051	Rev	1
		Effective Date	01 August 2016		
		Review Date	October 2027		
		EOI/RFI Number	MWP3001DX		

PART B RESPONSE SHEET IN TERMS OF A REQUEST FOR INFORMATION To be completed by the supplier			
To	Eskom Holdings SOC Ltd	Date	
Attention	Khutso Sebea – Sebeakb@eskom.co.za		
Tel no	<i>[insert your tel number]</i>	Fax no and /or e-mail address	<i>[insert your fax number and/or e-mail address]</i>
From	<i>[insert the registered full legal name of the company]</i>	Address	<i>[insert the business address of the company]</i>
Address	<i>insert the physical address of the company]</i>		
Sender	<i>[insert the full name of the sender at the company]</i>		
Description of the works/goods/services	<i>[insert a description of the works as per part A]</i>		

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Please find below our response to Eskom's questions:

No.	Question	Please indicate your response in this column
1.	<i>[brief description of previous experience and Description of the solution that you can offer]</i>	
2.	<i>Indicative prices (optional and only for use of RFI's)</i>	
3.	<i>Have you supplied and installed solar PV for the following sizes in the past year?</i> <ul style="list-style-type: none"> • 5 kVA • 8 kVA • 16 kVA 	
4.	<i>Have you supplied and installed the following in the past year?</i> The solar PV components will include the following: a) Hybrid Inverters b) Battery banks (Energy Storage System) c) Solar Panels d) PV Combiner Board e) Distribution Board f) Training	
5.	<i>Are you able to deliver the following:</i> <ul style="list-style-type: none"> • Maintenance of installed PV rooftop system / Conduct training for the maintenance of the 	

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	<p>system for the period of at least 12 months after installation handover</p> <ul style="list-style-type: none"> • Provide detailed design with drawings of the solar PV Power system for approval. • Starting-up and final commissioning of the system and providing test certificates, in coordination with specific standards. • Lifespan of the solar should be 25 years and the solution be fully upgradeable to extend lifespan 	
6.	Do you have a ECSA accredited professional engineer to sign off all installations?	
7.	<p><i>Have you conducted the following in the past 12 months?</i></p> <ul style="list-style-type: none"> • Concept design (Including the calculation of the optimum size of the installation and load recordings) • Design philosophy • Detail design, and design training. • Test certificates • Bill of quantities • Bill of materials • Design and as-built drawings • Commissioning documentation • Maintenance (all types) manuals, fault finding manuals, maintenance training. • QEM documents • Environmental impact studies 	

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	<ul style="list-style-type: none"> SHEQ documentation Checklists 	
8.	<p><i>Are you familiar with the Quality Management below? Please elaborate</i></p> <ul style="list-style-type: none"> The partner provides the works as per this document as well as a complete Quality Management plan as per [2], 240-105658000 Supplier Quality Management Specification. 	
9.	<p>Are you able to provide training to Eskom staff? Please elaborate</p> <ul style="list-style-type: none"> The partner is responsible for the training of Eskom staff during the design, construction, operation, and maintenance of the PV Plant. This includes training material for Operators, Engineers, and Technicians. The training material provided for Engineers are required to be detailed to the level of a System Engineer. Engineers are required to be able to fully configure any system of the PV installation, including the Control and Monitoring System (CMS). 	
10.	<p>Are you familiar with the following standards for inverters? Please elaborate</p> <p>The inverter shall comply with the requirements of the following technical standards:</p>	

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	<p>a) SANS/IEC 62109-1, Safety of power converters for use in photovoltaic power systems – Part 1: General Requirements.</p> <p>b) SANS/IEC 62109-2, Safety of power converters for use in photovoltaic power systems – Part 2: Particular requirements for inverters.</p> <p>c) NRS 097-2-1, Grid Interconnection of Embedded Generation – Part 2: Small-scale Embedded Generation – Section 1: Utility Interface</p>	
11.	<p>Are you able to supply and install the following:</p> <p>Crystalline silicon (c-Si) based PV modules shall be used.</p>	
12.	<p>Are you able to provide batteries with the following specifications?</p> <p>Batteries shall support at least 5000 cycles until it reaches 80% of its original (full and usable) capacity. The usable capacity at this (end) cycle-life shall be specified.</p>	
13.	<p>Does your AC & DC Reticulation System comply with the following requirements?</p> <p>5.5.1 The AC and DC circuit breakers, contactors and switches shall comply with the relevant parts of SANS 60947 series of standards.</p> <p>5.5.2 Fuse-links for the protection of solar Photovoltaic (PV) energy systems shall comply with all the requirements of SANS 60269-1,</p>	

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	<p>Low-voltage fuses Part 1: General requirements and SANS 60269-6:2021, Low-voltage fuses Part 6: Supplementary requirements for fuse-links for the protection of solar photovoltaic energy systems.</p> <p>5.5.3 The PV wires shall comply with SANS 62930, Electric cables for photovoltaic systems with a voltage rating of 1,5 kV DC.</p> <p>5.5.4 The DC connectors for the PV wires shall comply with SANS 62852, Connectors for DC-application in photovoltaic systems - Safety requirements and tests.</p>	
14.	<p>Is your system able to do the following?</p> <p>Please elaborate</p> <p>5.6.1 The system shall support a detailed, low-level data and information view of each component / device (e.g., inverter, BESS, control units, etc.) in the system. This level should expose all possible data from, and send settings and controls to, the equipment / devices</p>	
15.	<p>Please provide the following additional information:</p> <p>(1) Company Profile</p> <p>(2) Technical capabilities</p>	

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	(3) Geographic preferences (4) Market Experience and reference solutions (5) Technical documents including specifications and certifications (6) References	
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Yours faithfully

Name	Designation	Signature	Date
<i>[insert your full name/s]</i>	<i>[Insert your full designation]</i>		
Telephone number		Fax and/or e-mail address	

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