



**higher education
& training**

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA



Administration Centre

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TERMS OF REFERENCE SUPPLY, DELIVERY, INSTALLATION, AND CONFIGURATION OF HYBRID INVERTER SOLAR KIT FOR IKHALA TVET COLLEGE

PROJECT SPECIFICATIONS:

Project details

- HYBRID INVERTER SOLAR KIT/UPS
- 3000VA\1800W UPS Power with lithium batteries
- Onsite service/Maintenance Warranty: 05 years
- Total number = 06

Compliance with Mandatory Requirements:

- Provide a valid proof of a professional body accreditation of a company or any key expert within the company (i.e. SAPVIA accreditation or PV Greencard)
- Testing and commissioning of the complete works. Commissioning which includes documentation, inspection, and testing should be carried out in accordance with applicable codes of practice and regulations.
- Submission of COC for the complete solar power system work for each installation and per Distribution Board (DB) or building.
- The main supplier must have a CIDB Grading: 3EP/EB or higher
- The required batteries with a minimum of 10-year warranty/guarantee as they offer advantages such as high energy density, longer lifespan, and compatibility with deep-cycle operation.
- Lightning Protection and Earthing for Solar PV- apply measures to prevent damage and failure of the installed solar PV system due to lightning. **Installing lightning protection is specific to the installed SOLAR PV System.** Use earthing, electrical configurations, and protection product based standard compliance and protection.
- To train staff on how to operate, clean and maintain the solar panels
- To conduct an analysis performance of the system after the solar system has been installed.
- Handover report with complete information and savings estimation.
- A handover certificate.

SPECIAL CONDITIONS:

- No sub-contracting will be permitted without the approval and consent of the principal due to knowledge and experience required to render an effective service towards solar power system work.
- Once appointed, no additional costs incurred by the service provider will be accepted by Ikhala TVET College. Therefore, all participated costs should be included in the quotation.
- The service provider will take all necessary precautions to ensure that he/she complies with all respects with the environmental safety legislations and the Occupational Health and Safety Act (OHSA) aimed at protecting the health and safety of workers and others in the workplace.

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Aliwal North Engineering Campus: 051 634 1035 Cala Skills Centre: 087 238 2225

Ezibeleni Engineering Campus: 047 873 1293 Ezibeleni Skills Centre: 047 873 1293

Queenstown Campus: 045 838 2593/94 Queen Nonesi: 087 238 2225

Sterkspruit: 051 611 0205 Sterkspruit Engineering Campus: 051 611 0205

- Electrical installations must be done by a qualified electrical wireman with a valid registration with the Department of Labour. A valid electrical certificate of compliance must be issued once installed.
- A contingency amount equal to 10% of the quoted price must be included in the quotation. This reserve will be held by the Ikhala TVET College to address unforeseen circumstances.

FUNCTIONALITY REQUIREMENTS

For bids functionality is part of the evaluation process, they will be assessed in terms of functionality criteria stipulated hereunder. To progress to the next stage of evaluation, service providers must score a minimum of 60% of the total points outlined in the evaluation Grid.

No	Evaluation criteria	Guidelines	Maximum Points
1	PROJECT REFERENCE EXPERIENCE AND	Bidder has successfully supplied, constructed, and commissioned Solar project. Bidder to provide reference projects completed within the last 10 years, that has a valid client reference on client letterhead with valid contact details. Client reference letter to include, Project name, Description of works (including the project size, location of works, start date and complete date. 4 projects or more completed=35 3 Completed projects = 25 2 Completed projects = 20 1 Completed project = 0	(35)
2	EXPERTISE OF PROPOSED KEY PERSONNEL	CVs of proposed key personnel with experience in Solar projects. Verified certificates must be attached together with the CV.	(15)



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		NB: The key personnel shall be qualified/registered in their trade/professions 2.1. PROJECT TEAM Project Manager/Team Leader(Engineer/Technician) with 10 years of experience. Project Manager/Team leader with 10 years of experience or more =15 Project Manager/Team leader with 5 years of experience or more =10 Project Manager/Team leader with 03 years of experience or more =05 Project Manager/Team leader with less than 3 years of experience or more =00	
3	INSTALLATION ELECTRICIAN: Must have a SAPVIA OR Photovoltaic (PVGreen card)	Installation Electrician: with 10 years' experience or more =15 Installation Electrician: with 05 years' experience or more =10 Installation Electrician: with 03 years' experience or more =05 Installation Electrician less than 3 years of experience = 00	(15)
4	Safety representative with the minimum of 3 years' experience. Attached certificate to claim all points.	Attached certified certificate with the CV to claim all the points	(10)

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	Samtrac/Health and Safety		
5	LOCALITY	South Africa =05 Eastern Cape=10 (Eastern Cape, JoeGqabi and Chris Hani Districts)=15	(15)
6	Financial Requirements	Submit audited financial statements for past two years	(10)
TOTAL POINTS =100			

STAGE 3: PRICE AND PREFERENCE POINTS.

The 80/20 Principle is based on Price and special goals for Ikhala TVET College.



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