



# 2

**NEC3 Engineering & Construction Contract**

## **PART TWO – TECHNICAL REQUIREMENTS**

**The Request for Proposal and Subsequent award of a contract for a Turn-key project for the Design, Supply and installation of Solar Photovoltaic (PV), Inverter and Battery Energy Storage System (BESS) and Post Installation Maintenance for a period of 24 months for eNkokukeni Solar System House Project.**

**ENQUIRY NUMBER : E1733DXKZNOU**

**TENDERER NAME : \_\_\_\_\_**

**TENDER CLOSING  
DATE : 03 OCTOBER 2025 at 10:00 AM**

# **MANDATORY TECHNICAL EVALUATION CRITERIA**

**1-M**

# **RESOURCE CAPABILITY**

<b>1.1 SKILLS BASE</b>		<b>Page №</b>
<b>1.1.1</b>	Electrical Design Engineer/s	
<b>1.1.2</b>	Structural Design Engineer/Technologist	
<b>1.1.3</b>	Professional Quantity Surveyor	
<b>1.1.4</b>	Installation Electrician (IE) or Electrical Tester for single phase applications.	

1.2 SOFTWARE AND TOOLS		Page №
1.2.1	Design and simulation software for solar power systems.	
1.2.2	CAD software capable of *.DGN export.	

1.3 RELATED EXPERIENCE		Page No
1.3.1	Related Solar PV and BESS projects.	

**2-M**

# **DOCUMENTATION**

<b>2 DOCUMENTATION</b>		<b>Page №</b>
<b>2.1</b>	Submission of Operating and Maintenance (O&M) training manuals.	
<b>2.2</b>	Submission of completed and signed deviation schedules.	
<b>2.3</b>	Submission of completed and signed Technical Schedules A and B.	
<b>2.4</b>	Submission of confirmation letters verifying adherence to testing and standards for the installation of Solar PV and BESS, specifically for PV modules, inverters, corrosion protection regarding structural elements and enclosures and lithium iron phosphate batteries in the templates provided.	
<b>2.5</b>	Submission of all design reports, including the drawings specified in Technical Schedules A and B, for the required technologies.	



# **FUNCTIONAL EVALUATION CRITERIA**

**1-F**

**GENERAL**

1 GENERAL		Page No
1.1	Completed Tenderer Information Schedule	
1.2	Operating & Maintenance Training	
1.3	Quality Assurance	
1.4	One competent resource demonstrating Prepaid Meter Training employed at the tendering company during the tender period.	
1.5	LV authorisation for a resource employed at the tendering company during the tender period.	

**2-F**

# **DESIGN REPORTS**

<b>2 DESIGN REPORTS</b>		<b>Page №</b>
<b>2.1</b>	PV System Design Report	
<b>2.2</b>	Household PV Design Drawings – designs for the various types of housing structures	
<b>2.3</b>	Structural and PV Mounting Design Report	

**3-F**

# **SUBMISSION OF TECHNICAL AND DEVIATION SCHEDULES**

<b>3 SUBMISSION OF TECHNICAL AND DEVIATION SCHEDULES</b>		<b>Page №</b>
<b>3.1</b>	PV Modules: Technical Schedule A and B	
<b>3.2</b>	PV Modules: Deviation Schedule	
<b>3.3</b>	Inverters: Technical Schedule A and B	
<b>3.4</b>	Inverters: Deviation Schedule	
<b>3.5</b>	Lithium Iron Phosphate Batteries: Technical Schedule A and B	
<b>3.6</b>	Lithium Iron Phosphate Batteries: Deviation Schedule	

**4-F**

**MAINTENANCE**



<b>4 MAINTENANCE</b>		<b>Page №</b>
<b>3.1</b>	Preventative Maintenance Schedule	
<b>3.2</b>	Corrective Maintenance	
<b>3.3</b>	Spare Parts List	