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CIVIL DESIGN 2.1 DETAILED SPECIFICATION AND QUALITY ASSURANCE						
Project Description:	Mashaqiya Village (Nkandla) Solar PV Project					
Project No.'s:	ID	KZN-EBC-2403-1190868	WBS	C.DE07802		
Document Identifier:	PW	ER00xxx-00-P01#2.1-00	Rev	1		
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Department:	Civil Design					
Project Category:	Electrification					
PLCM Phase:	Detail Design					

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Page

1. TABLE OF CONTENTS

1.	TABLE OF CONTENTS	i
2.	FOREWARD	iii
3.	TEMPLATE REVISION HISTORY	iii
4.	DOCUMENT REVISION HISTORY	iii
5.	INTRODUCTION	4
6.	PROJECT SPECIFICATIONS.....	4
6.1.	STATUS	4
6.2.	PROJECT DESCRIPTION	4

	DETAILED SPECIFICATION	Document Identifier	ER00xxx- 00P01#2.1-00	Rev	0
		Template Identifier	240-130399885	Rev	1
		Authorisation Date	March 2025		
		Review Date	March 2030		

6.3.	OVERVIEW AND DETAILS OF CONTRACT	4
6.4.	LOCATION OF SITE	6
7.	GEOLOGY AND SOILS	6
8.	EXCAVATION REQUIREMENTS	6
9.	SITE INVESTIGATION/SURVEY	6
9.1.	General.....	6
9.2.	Solar PV Orientation and Positioning Requirements	6
10.	SERVICES	7
11.	EARTHWORKS	7
11.1.	EARTHWORKS SHALL ALSO INCLUDE THE FOLLOWING:	7
12.	TESTING	7
13.	TEMPORARY STOCKPILING OF MATERIAL	8
14.	FLORA CONTROL	8
15.	DRAINAGE	8
16.	EMBANKMENTS	8
17.	ACCESS ROADS.....	8
18.	STRUCTURE SECURITY AND SAFETY	8
19.	GENERAL	8
19.1.	QUALITY ASSURANCE (QA) (Read with SANS 1921 – 1: 2004 clause 4.4).....	9
19.2.	TESTING (Read with SANS 1921 – 1: 2004 clause 4.11).....	9
19.3.	SURVEY BEACONS (Read with SANS 1921 - 1: 2004 clause 4.15)	9
19.4.	EXISTING SERVICES (Read with SANS 1921 - 1: 2004 clause 4.17).....	9
19.5.	MANAGEMENT OF THE ENVIRONMENT	10
19.6.	REQUIREMENTS FOR ACCOMMODATION OF TRAFFIC	11
20.	PROJECT RISK ANALYSIS.....	11
21.	SAFETY SPECIFICATION	11
22.	“AS BUILT” INFORMATION	11
23.	ANNEXURE 1: SPECIFICATION FOR THE CURING OF CONCRETE.....	11
ANNEXURE 2: GUIDELINES FOR STRIKING TIMES OF FORMWORK		
23		

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	DETAILED SPECIFICATION	Document Identifier	ER00xxx-00P01#2.1-00	Rev	0
		Template Identifier	240-130399885	Rev	1
		Authorisation Date	March 2025		
		Review Date	March 2030		

2. FOREWARD

This document is the Detailed Specification for the **Mashaqiya Village (Nkandla) Solar PV Project** and covers the Civil Design specifications. This document is to be read in conjunction with the General Specification for the Civil and relevant Electrical works.

3. TEMPLATE REVISION HISTORY

REV	Date	Compiler	Comment
0	2016	P Chetty	
1	2024	PA Moabi	Review Date extended to March 2030 and update some contents of the document

4. DOCUMENT REVISION HISTORY

REV	Date		Comment
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Detailed Specification and Quality Assurance (Civil and Building Works): Mashaqiya (Nkandla) Solar PV Project	Template Identifier	240-130399885	Rev	1
	Document Identifier	ER00xxx-00-P08#2.1-00	Rev	0

5. INTRODUCTION

The scope of work under this project shall be carried out in full accordance with this detailed specification, all Standard Drawings (refer addendum 2.4), Project Specific Drawings (refer addendum 2.5) and the Standards and Specifications Index (refer addendum 2.6) included in the package. These specifications shall be read in conjunction with the General Specifications and Works Information for the Civil and Electrical Works.

This project shall conform in all instances to the Occupational, Health and Safety Act and Regulations, No. 85 of 1993, and any amendments thereto, including the Safety Specification referred to in Regulation 4 of these statutory requirements.

The Contractor shall provide a Health and Safety Plan in compliance with the Occupational, Health and Safety Act and Regulations, No. 85 of 1993, based upon but not limited to the Health & Safety Specification included in this package.

Compliance with the schedule of hold points in Annexure 1 shall be mandatory. All project time schedules shall include these hold points for quality inspection by the Design Engineer and/or Clerk of Works.

6. PROJECT SPECIFICATIONS

6.1. STATUS

The Project Specification forms an integral part of the contract and supplements the Standard Specifications. This part contains a general description of the works, the site and the requirements to be met. In the event of any discrepancy between a part or parts of the Standardised or Particular Specifications and the Project Specification, the Project Specification shall take precedence. In the event of a discrepancy between the Specifications, (including the Project Specifications) and the drawings and / or the Bill of Quantities, the discrepancy shall be resolved by the Engineer before the execution of the work under the relevant item.

6.2. PROJECT DESCRIPTION

The project comprises the following:

- Erecting and Installation of Solar Household systems, at the designated installation sites within the Mashaqiya Village.
- Quality checking, testing and commissioning of the relevant equipment and infrastructure to ensure compliance and readiness for use.

6.3. OVERVIEW AND DETAILS OF CONTRACT

This civil contract includes in brief the following scope of work:

- **Clearing and Grubbing:** Removal of all vegetation and organic material within 1.5m of the foundation footprint.
- **Stripping of Topsoil:** The stripping of topsoil from areas to be excavated is to be done to a minimum of 150mm and such material is not to be used as backfill.

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Detailed Specification and Quality Assurance (Civil and Building Works): Mashaqiya (Nkandla) Solar PV Project	Template Identifier	240-130399885	Rev	1
	Document Identifier	ER00xxx-00-P08#2.1-00	Rev	0

- **Excavation & Bottom Preparation:** The excavations of the new foundations are to be prepared, and the bottom of the excavation is to be made flat, level, and horizontal. In the unlikely event where, solid rock is encountered at founding depth, the surface must be clean, dry, and potentially "stepped or dowelled" to prevent lateral movement.
- **Backfilling:** All backfill material must be compacted in 150 mm layers to 93% Mod AASHTO density, and backfill within 500mm of the foundation footprint must not contain organic matter or stones larger than the lesser 150mm or 2/3 layer thickness.
- **Blinding Layer:** A 50 mm thick blinding layer of Grade 15 concrete is to be laid before placing of any reinforcement.
- **Preparation of formwork:** Suitable shuttering is to be prepared for foundation concrete pouring, as per applicable foundation drawing.
- **Earthing Preparation:** Catering for structure earthing within the foundations, in line with the electrical specifications is required and as per applicable foundation drawing.
- **Concrete Protection & Curing:** The newly placed concrete is to be protected from rapid drying and extreme temperature changes, and should be allowed to cure (using water spray, plastic sheeting, or curing compounds), for at least 7 days.
- **Concrete Foundations Geometric Alignment:** All structural foundations must precisely match the dimensions and locations specified in the engineering documentation and engineering details.
Please consult the relevant Foundation Design Drawings.
- **Erection of Steel Structure Elements:** All structural load bearing elements must be erected in strict accordance with the engineering documentation and engineering details.
Please consult the relevant Structural Design Drawings.
- **Installation of Member Connections Systems:** All structural connections must be installed in strict accordance with the engineering documentation and engineering details.
Please consult the relevant Structural Connection Design Drawings.
- **Installation/Placing of Solar PV Panels:** To be mounted in accordance with provided drawing specifications from engineer's design.
- **Solar PV Orientation and Positioning Requirements**

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Detailed Specification and Quality Assurance (Civil and Building Works): Mashaqiya (Nkandla) Solar PV Project	Template Identifier	240-130399885	Rev	1
	Document Identifier	ER00xxx-00-P08#2.1-00	Rev	0

The Contractor shall be responsible for identifying, setting out, and confirming the final location of each Solar PV support structure and associated pole-top equipment in accordance with the approved design drawings and site-specific constraints. The Solar PV array shall be orientated to face True North to optimise solar energy yield, unless otherwise instructed in writing by the Engineer.

The Contractor shall use an approved surveying method, GPS device, or suitable compass corrected for magnetic declination to establish True North. The final position and orientation of each installation shall be verified prior to foundation construction and panel installation. Any obstructions, shading concerns, or site conditions that may affect the required orientation shall be reported to the Engineer for review and approval before installation proceeds.

The associated pole-top box shall be positioned such that it is able to fulfil its operational requirements, able to be integrated with relevant system infrastructure and arranged to facilitate maintenance access whilst maintaining compliance with the required Solar PV array orientation and electrical design requirements.

- **Galvanising of Steel Elements and Connection Parts:** To be done in accordance with approved galvanizing standards.

6.4. LOCATION OF SITE

Mashaqiya Village is located near the town of Melmoth and within the Ntabandlovu area, in the KwaZulu Natal Province.

Location coordinates: 28°42'59.4"S 31°16'21.9"E

7. GEOLOGY AND SOILS

Refer to document **ER00xxx-00-Pxx#2.2-00**

8. EXCAVATION REQUIREMENTS

It is anticipated that the materials to an average depth of about 0.8 metre below existing ground level, will require Soft to Medium Excavation (SANS1200).

9. SITE INVESTIGATION/SURVEY

9.1. General

The contractor is expected to undertake a high-level site survey, to prudently determine the most suitable installation site(s) for each Solar Household System, in conjunction with direct consultation with the recommendations of the design engineer's studies.

9.2. Solar PV Orientation and Positioning Requirements

The Contractor shall be responsible for identifying, setting out, and confirming the final location of each Solar PV support structure and associated pole-top equipment in accordance with the approved design drawings and site-

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Detailed Specification and Quality Assurance (Civil and Building Works): Mashaqiya (Nkandla) Solar PV Project	Template Identifier	240-130399885	Rev	1
	Document Identifier	ER00xxx-00-P08#2.1-00	Rev	0

specific constraints. It is also expected, that unless site specific conditions (such as shade/s and spatial constraints) and/or the Engineer's written instruction dictates otherwise, the Solar PV array shall be orientated to face True North to optimise solar energy yield.

The Contractor shall use an approved surveying method, GPS device, or suitable compass corrected for magnetic declination to establish True North. The final position and orientation of each installation shall be verified prior to foundation construction and panel installation. Any obstructions, shading concerns, or site conditions that may affect the required orientation shall be reported to the Engineer for review and approval before installation proceeds.

The associated pole-top box shall be positioned such that it is able to fulfil its operational requirements, able to be integrated with relevant system infrastructure and arranged to facilitate maintenance access whilst maintaining compliance with the required Solar PV array orientation and electrical design requirements.

10. SERVICES

Not applicable.

11. EARTHWORKS

The construction of the earthworks shall be carried out in accordance with the requirements given in SANS1200 DM.

11.1. EARTHWORKS SHALL ALSO INCLUDE THE FOLLOWING:

- All vegetation should be cleared from the areas over which the platforms are to be constructed before any cutting or filling activity on site. 150mm of topsoil should be removed and stockpiled for later use as topsoil if deemed possible by the ECO.
- The upper 150mm of the insitu subgrade should be ripped and re-compacted to minimum 90% MDD before fills are placed (unless otherwise advised by the scope of works)
- The material used for fill should meet G8 quality requirements, i.e. minimum CBR =3 at 93% MDD compaction.
- All imported material must be G8 fill and should be placed in layers not exceeding 150 mm loose thickness, and compacted to a minimum of 93% Modified AASHTO.

12. TESTING

Concrete Cube Tests in compliance with the following:

- SANS 5860 Concrete tests: Dimensions, tolerances and uses of cast test specimens.
- SANS 5861 Concrete Tests: (Parts 1-3)
- SANS 5863 Concrete tests — Compressive strength of hardened concrete

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Detailed Specification and Quality Assurance (Civil and Building Works): Mashaqiya (Nkandla) Solar PV Project	Template Identifier	240-130399885	Rev	1
	Document Identifier	ER00xxx-00-P08#2.1-00	Rev	0

13. TEMPORARY STOCKPILING OF MATERIAL

The Contractor shall program the works in such a manner that suitable excavated material and off-site sourced material shall, if practically possible, be placed directly in the appropriate position to ensure that temporary stockpiling is limited to an absolute minimum.

14. FLORA CONTROL

Weed killer shall be applied to the finished floor level before commissioning of structure. This requirement is subject to having received direct authorization from the project's environmental specialist.

No Indigenous vegetation is to be cut or removed without the required tree cutting permits from the DFFE.

15. DRAINAGE

Not applicable.

16. EMBANKMENTS

Not applicable.

17. ACCESS ROADS

The Contractor shall keep to existing access roads and approved access routes at all times. The design and scope have taken into account the use of existing access roads and construction methods by hand. No cut-and-fill operations, road construction, road widening, vegetation clearing, or establishment of temporary access roads shall be undertaken without prior written approval from Eskom. Any proposed deviation from existing access arrangements shall be submitted to the responsible Engineering, Environmental, and Execution Departments for review and approval before implementation.

18. STRUCTURE SECURITY AND SAFETY

It is a requirement that anti-climbing devices be installed around the members of all 4 structural columns, to dissuade human and animal interaction with the structure during its lifetime operation. Fulfilment of this requirement is to be governed by the relevant Eskom Standard.

19. GENERAL

The latest revision of specification 240-87605434, Quality Checklist For Distribution Substation Primary Plant Prior To Handing Over For Commercial Operation shall be applicable to this project and the civil engineering portions therein must be completed in full by the Clerk of Works and returned to the Project Engineer with all the "as - built" documentation. Reference must also be made to Annexure 1 of this document, for a schedule of all the applicable hold points that have been identified as critical to the quality control process involved in the construction of this project, which are to be observed by the Contractor(s) involved and enforced accordingly.

Furthermore, the quality control guidelines in SANS 1921: 2004: Construction and Management Requirements for Works Contracts, Part 1: General Engineering and Construction Works, shall be complied with.

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Detailed Specification and Quality Assurance (Civil and Building Works): Mashaqiya (Nkandla) Solar PV Project	Template Identifier	240-130399885	Rev	1
	Document Identifier	ER00xxx-00-P08#2.1-00	Rev	0

19.1. QUALITY ASSURANCE (QA) (Read with SANS 1921 – 1: 2004 clause 4.4)

The assigned Contractor will be solely responsible for the production of work that complies with the Specifications to the satisfaction of the Engineer. To this end it will be the full responsibility of the Contractor to institute an appropriate Quality Assurance (QA) system on site. The Engineer will audit the Contractor's quality assurance (QA) system on a regular basis to verify that adequate independent checks and tests are being carried out and to ensure that the applied controls are sufficient to identify any possible quality problems which could cause a delay or failure.

Upon completion and submission of each portion of the Works to the Engineer for examination, the Contractor shall furnish the Engineer with the results of relevant tests, measurements and levels, thereby indicating compliance with the Specifications.

19.2. TESTING (Read with SANS 1921 – 1: 2004 clause 4.11)

19.2.1. Process control

Tests required for process control to be done by a laboratory acceptable to and approved by the Engineer.

On site laboratories or the employment of independent commercial laboratory services, are acceptable. Whatever method is used, the results of all tests carried out on materials and workmanship must be submitted to the engineer for acceptance. The costs for these tests shall be deemed to be included in the relevant rates, and no additional payment will be made for testing as required.

19.2.2. Acceptance control

The process control test results submitted for approval of materials and workmanship may be used by the Engineer for acceptance control. However, before accepting any work, the Engineer may have further control tests carried out by a laboratory of his choice. The cost of such additional tests will be covered by a provisional sum provided in the schedule of quantities, but tests that failed to confirm compliance with the specifications, will be for the account of the Contractor.

19.3. SURVEY BEACONS (Read with SANS 1921 - 1: 2004 clause 4.15)

Special precautions are to be taken to protect all permanent survey beacons or pegs such as bench-marks, stand boundary pegs and trigonometrical beacons, regardless whether such beacons or pegs were placed before or during the execution of the works. If any such beacons or pegs are disturbed, these are to be replaced by a registered land surveyor at own cost.

19.4. EXISTING SERVICES (Read with SANS 1921 - 1: 2004 clause 4.17)

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Detailed Specification and Quality Assurance (Civil and Building Works): Mashaqiya (Nkandla) Solar PV Project	Template Identifier	240-130399885	Rev	1
	Document Identifier	ER00xxx-00-P08#2.1-00	Rev	0

The Contractor shall make themselves acquainted with the position of all existing services before any excavation or other work likely to affect the existing services is commenced.

The Contractor will be held responsible for any damage to known existing services caused by or arising out of his operations and any damage shall be made good at his own expense. Damage to unknown services shall be repaired as soon as possible and liability shall be determined on site when such damage should occur.

19.5. MANAGEMENT OF THE ENVIRONMENT

The Contractor shall pay special attention to the following:

19.5.1. Natural Vegetation

The Contractor shall confine his operation to as small an area of the site as may be practical for the purpose of constructing the works.

Only those trees and shrubs directly affected by the works and such others as the Engineer may direct in writing shall be cut down and stumped. The natural vegetation, grassing and other plants shall not be disturbed other than in areas where it is essential for the execution of the work or where directed by the Engineer.

19.5.2. Fires

The Contractor shall comply with the statutory and local fire regulations. All necessary precautions to prevent any fires are to be taken. In the event of fire the Contractor shall take active steps to limit and extinguish the fire and shall accept full responsibility for damages and claims resulting from such fires which may have been caused by themselves or employees.

19.5.3. Features Requiring Special Attention

Watercourse

The contractor shall ensure that all construction vehicles used to cross through the river have no leakages of oil or any substance that could contaminate the watercourse.

All vehicles should cross only at the designated area as agreed to by the Environmentalists and the Engineer.

The abstraction of water from the river for construction purposes is prohibited, the contractor shall ensure that portable drinking water is provided for the workers.

No washing of vehicles or construction equipment is allowed in the river; the contractor shall ensure that all concrete mixing is conducted on an impermeable surface and that no runoff of cement containing water ends up in the river.

The contractor shall ensure that all requirements stipulated in the Water Use License, EMP, and any other permit that will be obtained for this development are complied with fully throughout the construction phase.

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Detailed Specification and Quality Assurance (Civil and Building Works): Mashaqiya (Nkandla) Solar PV Project	Template Identifier	240-130399885	Rev	1
	Document Identifier	ER00xxx-00-P08#2.1-00	Rev	0

19.5.4. Management And Disposal of Water (Read With Sans 1921 - 1: 2004 Clause 4.6)

The Contractor shall pay special attention to the management and disposal of water on the site. It is essential that all completed works or parts thereof are kept dry and properly drained. Claims for delay and for repair of damage caused to the works as a result of the Contractor's failure to properly manage water resources, will not be considered. In addition the requirements stipulated by the project's environmental specialist are required to be adhered to in full, as per relevant reference document.

19.5.5. Disposal of Spoil or Surplus Material (Read with Sans 1921 - 1 : 2004 Clause 4.10)

The Contractor shall dispose all surplus and unsuitable material in legal spoil areas of own choice. The Contractor shall be responsible for all arrangements necessary to obtain such spoil sites.

19.6. REQUIREMENTS FOR ACCOMMODATION OF TRAFFIC

Not applicable.

20. PROJECT RISK ANALYSIS

Refer to Health and Safety Specification.

21. SAFETY SPECIFICATION

Refer to Health and Safety Specification.

22. "AS BUILT" INFORMATION

Not applicable.

23. ANNEXURE 1: SPECIFICATION FOR THE CURING OF CONCRETE

GENERAL:

In general the longer the period of curing, the better will be the quality of the concrete. This applies not only to its compressive strength, but also to its durability, impermeability, resistance to wear, weathering and chemical attack, and to its freedom from shrinkage cracking.

It is desirable however to balance the requirements of quality with those of economy. For this reason the minimum period of curing should not be less than 7 days under average conditions with normal Portland cement, but better practice would call for an extension of this period to 10 days.

ACCEPTED METHODS OF CURING:

1. Retaining forms in place

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Detailed Specification and Quality Assurance (Civil and Building Works): Mashaqiya (Nkandla) Solar PV Project	Template Identifier	240-130399885	Rev	1
	Document Identifier	ER00xxx-00-P08#2.1-00	Rev	0

If the formwork is of timber, then they should be sprinkled with water at frequent intervals to prevent their drying out.

2. Ponding of water on exposed surfaces

Covering of the concrete with sand, earth, straw, sawdust, or mats made of a moisture retaining material, and the keeping of the covering continuously wet.

3. Sprinkling or spraying the surface with water at frequent intervals to keep the concrete continuously moist

Care must be taken with this method of curing to avoid damage to the concrete through the use of heavy jets.

4. Covering of the concrete with a waterproof or plastic sheeting firmly anchored at the edges.

5. The use of an approved curing compound applied in accordance with the manufacturer's instructions.

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Detailed Specification and Quality Assurance (Civil and Building Works): Mashaqiya (Nkandla) Solar PV Project	Template Identifier	240-130399885	Rev	1
	Document Identifier	ER00xxx-00-P08#2.1-00	Rev	0

ANNEXURE 2: GUIDELINES FOR STRIKING TIMES OF FORMWORK									
1	2	3	4	5	6	7	8	9	10
	Minimum Time, d								
	Type of cement used								
Type of structural member or formwork	Portland cement & Portland cement 15			Rapid hardening Portland cement & Portland cement 15			Portland blast furnace cement		
	Weather								
	normal	cool	cold	normal	cool	cold	normal	cool	cold
Beam sides, walls, and unloaded columns	0.75		1.5	0.5		1	2		4
Slabs with props left under	4		7	2		4	6		10
Beam soffits with props left under and ribs of a ribbed floor construction	7		12	3		5	10		17
Slab props - including cantilevers	10		17	5		9	10		17
Beam props - including cantilevers	14		21	7		12	14		21

NOTES:

1. The above table serves as a guide only. The final striking times of formwork must be upon the authorization of the Engineer. This should be done in correlation with the designed concrete strengths verified from concrete cube tests at 7, 14 and 21 and / or 28 days.
2. In "normal weather", temperatures of the atmosphere adjacent to the concrete, as measured with a maximum and minimum thermometer, do not fall below 18 deg.C.
3. In 'cold weather", temperatures, measured similarly, vary between 5 and 10 deg.C.

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