

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2026/07/0003/114562/RFP

DESCRIPTION OF THE WORKS: REFURBISHMENT OF SUBSTATIONS AT THE PORT OF CAPE TOWN, CONTAINER  
TERMINAL OF TRANSNET SOC LTD (REG.NO.1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS,  
(HEREINAFTER REFERRED TO AS "TPT") FOR A PERIOD OF TWENTY-FOUR (24) MONTHS

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## PART 2: PRICING DATA

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| C2.1               | Pricing instructions: Option B | 5           |
| C2.2               | The <i>bill of quantities</i>  | 19          |

## C2.1 Pricing instructions: Option B

### 1. The conditions of contract

#### 1.1. How the contract prices work and assesses it for progress payments

Clause 11 in NEC3 Engineering and Construction Contract, June 2005 (ECC3) Option B states:

|                                     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Identified and defined terms</b> | 11   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                     | 11.2 | <p>(21) The Bill of Quantities is the <i>bill of quantities</i> as changed in accordance with this contract to accommodate implemented compensation events and for accepted quotations for acceleration.</p> <p>(22) Defined Cost is the cost of the components in the Shorter Schedule of Cost Components whether work is subcontracted or not excluding the cost of preparing quotations for compensation events.</p> <p>(28) The Price for Work Done to Date is the total of</p> <ul style="list-style-type: none"> <li>the quantity of the work which the <i>Contractor</i> has completed for each item in the Bill of Quantities multiplied by the rate and</li> <li>a proportion of each lump sum which is the proportion of the work covered by the item which the <i>Contractor</i> has completed.</li> </ul> <p>Completed work is work without Defects which would either delay or be covered by immediately following work.</p> <p>(31) The Prices are the lump sums and the amounts obtained by multiplying the rates by the quantities for the items in the Bill of Quantities.</p> |

This confirms that Option B is a re-measurement contract and the bill comprises only items measured using quantities and rates or stated as lump sums. Value related items are not used. Time related items are items measured using rates where the rate is a unit of time.

#### 1.2. Function of the Bill of Quantities

Clause 55.1 in Option B states, "Information in the Bill of Quantities is not Works Information or Site Information". This confirms that instructions to do work or how it is to be done are not included in the Bill, but in the Works Information. This is further confirmed by Clause 20.1 which states, "The *Contractor* Provides the Works in accordance with the Works Information". Hence the *Contractor* does **not** Provide the Works in accordance with the Bill of Quantities. The Bill of Quantities is only a pricing document.

#### 1.3. Guidance before pricing and measuring

Employers preparing tenders or contract documents, and tendering contractors are advised to consult the sections dealing with the bill of quantities in the NEC3 Engineering and Construction Contract (June 2005) Guidance Notes before preparing the *bill of quantities* or before entering rates and lump sums into the *bill*.

Historically bill of quantities based contracts in South Africa have been influenced by the different approaches of the civil engineering and building sectors of the industry through their respective discipline based standard forms of contract and methods of measurement. This is particularly apparent in the approach to the Preliminary and General bill. On the other hand, because ECC3 caters for a number of disciplines in the same contract, including electrical works, a different approach not currently found in local methods of measurement to the Preliminary & General bill items may have been used.

The NEC approach to the P & G bill assumes use will be made of method related charges for Equipment

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applied to Providing the Works based on durations shown in the Accepted Programme, fixed charges for the use of Equipment that is required throughout the construction phase, time related charges for people working in a supervisory capacity for the period required, and lump sum charges for other facilities or services not directly related to performing work items typically included in other parts of the bill.

### 1.4 Contract Skills Development Goal (CSDG)

The contractor shall determine the contract skills participation goals, expressed in Rand, which shall not be less than the contract amount multiplied by a percentage (0.25%) factor given in the final tender summary of the Bill of Quantities below.

The Employer may determine the skills Methods to be implemented on the contract or the Employer may elect the contractor to determine the skills Methods to be implemented as per the Standard, provided the CSDG is achieved. The pricing for the skills Methods to be implemented is provided in Table 3 of the Standard for the applicable class of construction works.

**Table 3: The notional cost of providing training opportunities per quarter.**

| Type of Training Opportunity         | Provision for stipends (Unemployed learners only) | Provisions for mentorship | Provisions for additional costs* | Total costs         |                   |
|--------------------------------------|---------------------------------------------------|---------------------------|----------------------------------|---------------------|-------------------|
|                                      |                                                   |                           |                                  | Unemployed learners | Employed learners |
| Method 1                             |                                                   |                           |                                  |                     |                   |
| Occupational qualification           | R7 000                                            | R0                        | R9 000                           | R16 000             | R9 000            |
| Method 2                             |                                                   |                           |                                  |                     |                   |
| TVET College graduates               | R14 000                                           | R0                        | R9 000                           | R23 000             | N/A               |
| Apprenticeship                       | R14 000                                           | R0                        | R12 000                          | R26 000             | R12 000           |
| Method 3                             |                                                   |                           |                                  |                     |                   |
| P1 and P2 learners                   | R24 000                                           | R20 000                   | R4 500                           | R48 500             | N/A               |
| Method 4                             |                                                   |                           |                                  |                     |                   |
| Candidates with a 3 year diploma     | R37 000                                           | R20 000                   | R4 500                           | R61 500             | R20 000           |
| Candidates with 4 year qualification | R47 000                                           | R20 000                   | R4 500                           | R71 500             | R20 000           |

In the example below:

**Table 4. Example of the Application of the Skills Methods**

| Item | Description                                                                                                                  | Unit        | Qty | Rate    | Amount   |
|------|------------------------------------------------------------------------------------------------------------------------------|-------------|-----|---------|----------|
| 1    | Provision for stipends (unemployed learners) (P1 & P2 - Method 3)                                                            | Per quarter | 3   | R24 000 | R72 000  |
| 2    | Provision for Mentorship (P1 & P2 - Method 3)                                                                                | Per quarter | 3   | R20 000 | R60 000  |
| 3    | Provision for additional cost (PPE, Medical assessment, course fees) (P1 & P2 - Method 3)                                    | Per quarter | 3   | R4 500  | R13 500  |
| 4    | Provision for additional cost, employed learner (PPE, Medical assessment, course fees, assessment and monitoring) (Method 1) | Per quarter | 1   | R9 000  | R9 000   |
| 16   | Minimum CSDG sum = CE (0.25%) x Subtotal (R60 000 000) =R150 000                                                             |             |     |         | R154 000 |

**Note the CSDG achieved on the contract must be equal to or higher than the minimum CSDG**

The Contractor shall be paid as follows:

Payment to the contractor to accommodate Part/Full Occupational qualification (Method 1), Trade qualifications learners (Method 2), Work Integrated Learners (Method 3) and Candidates for professional registration (Method 4) for Stipends and Provision for Additional Costs.

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Based on the agreed skills methods, the employer shall make provision for payment to the contractor for learner and candidate stipends for unemployed persons and a provision for additional cost such as medical assessments, personal protective equipment, tools and course fee for example skills programmes, pre trade test training and registration support programmes as indicated in Table 3 in the Standard as provided in the Final Tender Summary section for the CSDG.

### Provision of payment to Mentors

Payment to the contractor for Mentorship to accommodate Work Integrated Learners (Method 3) and Candidates for professional registration (Method 4) only.

The contractor shall be paid as follows:

Should Work Integrated Learners and/or Candidates for professional registration form part of the agreed skills Method, the Employer shall make provision for payment of the mentor as indicated in Table 3 in the Standard.

Mentoring associated with structured workplace learning for candidates shall be in accordance with the prescripts of the relevant professional body or statutory council.

The contractor shall carry out all the requirements under clause 4.3 Structured Workplace Learning for Candidates in the Standard. The contractor shall:

- Identify a suitable mentor for the candidate.
- Issue each candidate with a portfolio of evidence file.
- Ensure the mentor provides an updated workplace training plan for a candidate.

## 2. Measurement and payment

### 2.1. Symbols

The units of measurement described in the Bill of Quantities are metric units abbreviated as follows:

| Abbreviation         | Unit                  |
|----------------------|-----------------------|
| %                    | percent               |
| h                    | hour                  |
| ha                   | hectare               |
| kg                   | kilogram              |
| kl                   | kilolitre             |
| km                   | kilometre             |
| km-pass              | kilometre-pass        |
| kPa                  | kilopascal            |
| kW                   | kilowatt              |
| l                    | litre                 |
| m                    | metre                 |
| mm                   | millimetre            |
| m <sup>2</sup>       | square metre          |
| m <sup>2</sup> -pass | square metre pass     |
| m <sup>3</sup>       | cubic metre           |
| m <sup>3</sup> -km   | cubic metre-kilometre |
| MN                   | meganewton            |
| MN.m                 | meganewton-metre      |
| MPa                  | megapascal            |

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|                       |                 |
|-----------------------|-----------------|
| No.                   | number          |
| Prov sum <sup>1</sup> | provisional sum |
| PC-sum                | prime cost sum  |
| R/only                | Rate only       |
| sum                   | Lump sum        |
| t                     | ton (1000kg)    |
| W/day                 | Workday         |

## 2.2. General assumptions

- 2.2.1. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance has been made in the quantities for waste.
- 2.2.2. The Prices and rates stated for each item in the Bill of Quantities shall be treated as being fully inclusive of all work, risks, liabilities, obligations, overheads, profit and everything necessary as incurred or required by the *Contractor* in carrying out or providing that item.
- 2.2.3. Clause 63.13 in Option B provides that these rates and Prices may be used as a basis for assessment of compensation events instead of Defined Cost.
- 2.2.4. Where this contract requires detailed drawings, designs or other information to be provided, and no rates or prices are included in the *bill* specifically for such matters, then the *Contractor* is deemed to have allowed for all costs associated with such requirements within the tendered rates and Prices in the Bill of Quantities.
- 2.2.5. An item against which no Price is entered will be treated as covered by other Prices or rates in the *bill of quantities*. If a number of items are grouped together for pricing purposes, this will be treated as a single lump sum.
- 2.2.6. The quantities contained in the Bill of Quantities may not be final and do not necessarily represent the actual amount of work to be done. The quantities of work assessed and certified for payment by the *Project Manager* at each assessment date will be used for determining payments due and not the quantities given in the Bill of Quantities.
- 2.2.7. The short descriptions of the items of payment given in the *bill of quantities* are only for the purposes of identifying the items. More detail regarding the extent of the work entailed under each item is provided in the Works Information.

## 2.3. Departures from the *method of measurement*

- 2.3.1. None

<sup>1</sup> Provisional Sums should not be used unless absolutely unavoidable. Rather include specifications and associated bill items for the most likely scope of work, and then change later using the compensation event procedure if necessary. This is because tenderers cannot programme effectively for unknown scopes of work.

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## **2.4. Amplification of or assumption about measurement items**

- 2.4.1. In the event of any ambiguity or inconsistency between the statements in the method of measurement and this section, the interpretation given in section 2 above shall be used.

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## C2.2 The *Bill of Quantities*

| ITEM       | PAY REF            | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                 | UNIT | QTY | RATE | AMOUNT |
|------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|
| 1          |                    | <b><u>SECTION 1 : PRELIMINARY &amp; GENERAL</u></b>                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |      |        |
|            |                    | -                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |     |      |        |
|            |                    | <b>NOTE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |     |      |        |
|            |                    | Tenderers are to price this Schedule strictly in accordance with the Specifications and SANS 1200, where a conflict arises between these two documents the Specifications shall take precedence. Where a conflict arises between this Schedule and the Specifications, the Specifications shall take precedence. Tenderers shall study all relevant information before pricing this Schedule and the Schedule shall be priced to provide the complete Works |      |     |      |        |
|            |                    | To be read in conjunction with but not limited to the following Project Technical Specification(s) :                                                                                                                                                                                                                                                                                                                                                        |      |     |      |        |
|            |                    | PART C3: SCOPE OF WORK                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     |      |        |
|            | <b>SANS 1200 A</b> | <b><u>GENERAL</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |      |        |
| <b>1.1</b> | <b>PSA 8.3</b>     | <b><u>SCHEDULED FIXED-CHARGE ITEMS</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                  |      |     |      |        |
| 1.1.1      | 8.3.1              | <b><u>Contractual requirements</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     |      |        |
|            |                    | a) Sureties                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sum  | 1   |      |        |
|            |                    | b) Insurance of the works and plant                                                                                                                                                                                                                                                                                                                                                                                                                         | Sum  | 1   |      |        |
|            |                    | c) Third party or public liability insurance                                                                                                                                                                                                                                                                                                                                                                                                                | Sum  | 1   |      |        |
|            |                    | d) Unemployment insurance                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sum  | 1   |      |        |
|            |                    | e) Performance security as per <i>Employer's</i> requirements                                                                                                                                                                                                                                                                                                                                                                                               | Sum  | 1   |      |        |
|            | <b>PSA 8.3.2</b>   | <b><u>ESTABLISHMENT OF FACILITIES ON THE SITE</u></b>                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |      |        |

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| ITEM  | PAY REF     | DESCRIPTION                                                                                                                                                            | UNIT | QTY | RATE | AMOUNT |
|-------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|
| 1.1.2 | PSA 8.3.2.1 | <b><u>FACILITIES FOR CONTRACTOR</u></b>                                                                                                                                |      |     |      |        |
|       |             | a) Offices and storage sheds ( 1 No. Offices<br>1 No. Sheds)                                                                                                           | Sum  | 1   |      |        |
|       |             | e) Ablution and latrine facilities                                                                                                                                     | Sum  | 1   |      |        |
|       |             | f) Tools and equipment                                                                                                                                                 | Sum  | 1   |      |        |
|       |             | g) Water supplies, electric power and<br>communications                                                                                                                | Sum  | 1   |      |        |
|       |             | h) Access                                                                                                                                                              | Sum  | 1   |      |        |
| 1.1.4 | PSA-8.3.3   | <b><u>OTHER FIXED-CHARGE OBLIGATIONS</u></b>                                                                                                                           |      |     |      |        |
|       |             | a) Management meetings                                                                                                                                                 | Sum  | 1   |      |        |
|       |             | b) Documentation control including provision<br>and/ or submission for approval of all<br><i>Contractor's</i> documents as part of the<br>execution of the works       | Sum  | 1   |      |        |
|       |             | c) Safety risk management including but not<br>limited to the Safety Plan as required by the<br>Occupational Health and Safety Act, Act 85<br>of 1993                  | Sum  | 1   |      |        |
|       |             | d) Environmental management including but<br>not limited to Environmental Method<br>Statements in accordance with the<br>Construction Environmental Management<br>Plan | Sum  | 1   |      |        |
|       |             | e) Quality assurance requirements                                                                                                                                      | Sum  | 1   |      |        |
|       |             | f) Site security requirements                                                                                                                                          | Sum  | 1   |      |        |
|       |             | g) Programming                                                                                                                                                         | Sum  | 1   |      |        |
|       |             | h) Industrial relations management                                                                                                                                     | Sum  | 1   |      |        |
|       |             | i) Operation and maintenance manuals of the<br>installation, operation and maintenance<br>manuals and drawings for the equipment<br>under this contract                |      |     |      |        |

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| ITEM  | PAY REF   | DESCRIPTION                                                                                                         | UNIT | QTY | RATE | AMOUNT |
|-------|-----------|---------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|
|       |           | i) Draft copies, three [3] in number                                                                                | Sum  | 1   |      |        |
|       |           |                                                                                                                     |      |     |      |        |
|       |           | ii) Final copies, number to be confirmed by <i>Employer</i>                                                         | Sum  | 1   |      |        |
|       |           |                                                                                                                     |      |     |      |        |
| 1.1.5 | 8.3.4     | <b><u>REMOVAL OF SITE ESTABLISHMENT</u></b>                                                                         |      |     |      |        |
|       |           |                                                                                                                     |      |     |      |        |
|       |           | a) Removal of site establishment                                                                                    | Sum  | 1   |      |        |
|       |           |                                                                                                                     |      |     |      |        |
| 1.2   | PSA 8.4   | <b><u>TIME-RELATED ITEMS</u></b>                                                                                    |      |     |      |        |
|       |           | -                                                                                                                   |      |     |      |        |
|       | PSA 8.4   | <b>SCHEDULED TIME-RELATED ITEMS</b>                                                                                 |      |     |      |        |
|       |           |                                                                                                                     |      |     |      |        |
| 1.2.1 | 8.4.1     | <b><u>Contractual requirements</u></b>                                                                              |      |     |      |        |
|       |           |                                                                                                                     |      |     |      |        |
|       |           | a) Sureties                                                                                                         | Sum  | 1   |      |        |
|       |           |                                                                                                                     |      |     |      |        |
|       |           | b) Insurance of the works and plant                                                                                 | Sum  | 1   |      |        |
|       |           |                                                                                                                     |      |     |      |        |
|       |           | c) Third party or public liability insurance                                                                        | Sum  | 1   |      |        |
|       |           |                                                                                                                     |      |     |      |        |
|       |           | d) Unemployment insurance                                                                                           | Sum  | 1   |      |        |
|       |           |                                                                                                                     |      |     |      |        |
|       |           | e) Performance security as per <i>Employer's</i> requirements                                                       | Sum  | 1   |      |        |
|       |           |                                                                                                                     |      |     |      |        |
|       |           | f) Other                                                                                                            | Sum  | 1   |      |        |
|       |           |                                                                                                                     |      |     |      |        |
|       | PSA 8.4.2 | <b>OPERATION AND MAINTENANCE OF FACILITIES ON SITE, FOR DURATION OF CONSTRUCTION, EXCEPT WHERE OTHERWISE STATED</b> |      |     |      |        |
|       |           |                                                                                                                     |      |     |      |        |
|       |           |                                                                                                                     |      |     |      |        |
|       |           |                                                                                                                     |      |     |      |        |
|       |           |                                                                                                                     |      |     |      |        |
| 1.2.3 | 8.4.2.2   | <b>FACILITIES FOR CONTRACTOR</b>                                                                                    |      |     |      |        |
|       |           |                                                                                                                     |      |     |      |        |
|       |           | a) Offices and storage sheds ( 1 No. Offices 1 No. Sheds)                                                           | Sum  | 1   |      |        |
|       |           |                                                                                                                     |      |     |      |        |
|       |           | b) Ablution and latrine facilities                                                                                  | Sum  | 1   |      |        |
|       |           |                                                                                                                     |      |     |      |        |
|       |           | c) Tools and equipment                                                                                              | Sum  | 1   |      |        |

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| ITEM  | PAY REF   | DESCRIPTION                                                                                                                                             | UNIT | QTY | RATE | AMOUNT |
|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|
|       |           | d) Access                                                                                                                                               | Sum  | 1   |      |        |
| 1.2.4 | 8.4.3     | <b>SUPERVISION FOR DURATION OF CONSTRUCTION</b>                                                                                                         |      |     |      |        |
|       |           | a) Supervision for the duration of construction                                                                                                         | Sum  | 1   |      |        |
| 1.2.5 | 8.4.4     | <b>COMPANY AND HEAD OFFICE OVERHEAD COSTS FOR THE DURATION OF THE CONTRACT</b>                                                                          |      |     |      |        |
|       |           | a) Company and head office overhead costs for the duration of the contract                                                                              | Sum  | 1   |      |        |
| 1.2.6 | PSA-8.4.5 | <b>OTHER TIME-RELATED OBLIGATIONS</b>                                                                                                                   |      |     |      |        |
|       |           | a) Management meetings                                                                                                                                  | Sum  | 1   |      |        |
|       |           | b) Documentation control including provision and/ or submission for approval of all <i>Contractor's</i> documents as part of the execution of the works | Sum  | 1   |      |        |
|       |           | c) Occupational Health and Safety Specification compliance                                                                                              | Sum  | 1   |      |        |
|       |           | d) Construction Environmental Management Plan compliance                                                                                                | Sum  | 1   |      |        |
|       |           | e) Quality assurance requirements                                                                                                                       | Sum  | 1   |      |        |
|       |           | f) Site security requirements                                                                                                                           | Sum  | 1   |      |        |
|       |           | g) Programming and progress reporting                                                                                                                   | Sum  | 1   |      |        |
|       |           | j) Transportation                                                                                                                                       | Sum  | 1   |      |        |
|       |           | -                                                                                                                                                       |      |     |      |        |
|       |           | -                                                                                                                                                       |      |     |      |        |
|       |           | -                                                                                                                                                       |      |     |      |        |
|       |           | <b>TOTAL CARRIED TO SUMMARY</b>                                                                                                                         |      |     |      |        |

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| ITEM NO. | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | QTY | UNIT | SUPPLY RATE | INSTALLATION RATE | TOTAL |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------------|-------|
|          | <b>SECTION 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |      |             |                   |       |
|          | <b>NOTE</b><br><br>This Bill of Quantities shall be read in conjunction with the drawings, works information and the specifications and shall be priced to provide a complete installation, i.e. the supply where required, installation, testing and commissioning plus handing over of the fully functional equipment / installation. <b>The Contractor to furnish all design and shop drawings if applicable and any associated equipment specifications for approval prior to manufacturing and delivery to site</b> |     |      |             |                   |       |
|          | To be read in conjunction with but not limited to the following Project Technical Specification(s):<br>Part C3: Works Information                                                                                                                                                                                                                                                                                                                                                                                        |     |      |             |                   |       |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |      |             |                   |       |
| A        | <b>CONTAINER ADMIN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |             |                   |       |
| A1       | <b>Preparation works for the proposed substation upgrades</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |      |             |                   |       |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |      |             |                   |       |
| 1        | Disconnect and removal of the existing MV switchgear, LV switchgear and battery bank to be replaced.                                                                                                                                                                                                                                                                                                                                                                                                                     | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |      |             |                   |       |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |      |             |                   |       |
| A2       | <b>Medium voltage switchgear</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |      |             |                   |       |
| 1        | Design, supply and install a new 1250A 11kV incomer VCB panel.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2   | ea   |             |                   |       |
| 2        | Design and supply a new spare 1250A 11kV incomer VCB panel.                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1   | ea   |             |                   |       |
| 3        | Design, supply and install a new 1250A 11kV bus section VCB panel.                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1   | ea   |             |                   |       |
| 4        | Design, supply and install a new 630 11kV feeder VCB panel.                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2   | ea   |             |                   |       |
| 5        | Design and supply a new spare 630 11kV feeder VCB panel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1   | ea   |             |                   |       |
| 6        | Design supply and install a 11kV bus-riser panels/bus-bar Earth /VT panels.                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1   | ea   |             |                   |       |
| 7        | Design, supply, install and commission a complete arc ducting and protection system for the 11kV switchgear                                                                                                                                                                                                                                                                                                                                                                                                              | 1   | Sum  |             |                   |       |
| 8        | Design, supply, install a battery bank (enclosed in a cabinet) and battery terminal unit for the 11kV switchgear complete with protection and wiring.                                                                                                                                                                                                                                                                                                                                                                    | 1   | sum  |             |                   |       |
| 9        | Provision of racking tools                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1   | sum  |             |                   |       |
| 10       | UFES or similar approved KIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1   | sum  |             |                   |       |

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2026/07/0003/114562/RFP

DESCRIPTION OF THE WORKS: REFURBISHMENT OF SUBSTATIONS AT THE PORT OF CAPE TOWN, CONTAINER TERMINAL OF TRANSNET SOC LTD (REG.NO.1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS, (HEREINAFTER REFERRED TO AS "TPT") FOR A PERIOD OF TWENTY-FOUR (24) MONTHS

| ITEM NO. | ITEM DESCRIPTION                                                                                                                                                          | QTY | UNIT | SUPPLY RATE | INSTALLATION RATE | TOTAL |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------------|-------|
|          | <b>Sub total</b>                                                                                                                                                          |     |      |             |                   |       |
| A3       | <b>Low voltage switchgear</b>                                                                                                                                             |     |      |             |                   |       |
| 1        | Design, supply and install a new LV switchgear including new standard terminations for the existing incomer and feeder.                                                   | 1   | sum  |             |                   |       |
| 2        | Design, supply, and install a control panel for the proposed MV switchgear complete with cabling.                                                                         | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                          |     |      |             |                   |       |
| A4       | <b>Low Voltage Cables</b>                                                                                                                                                 |     |      |             |                   |       |
| 1        | Supply and installation of a new 3ph 1 core 400mm <sup>2</sup> 400V XLPE SWA Cu ECC Cable.                                                                                | 300 | m    |             |                   |       |
| 2        | Supply and installation of a new 1 core 400mm <sup>2</sup> SWA ECC LV Cu Cable standard terminations. That is 2x per phase both from the TRF side and LV switchgear.      | 36  | ea   |             |                   |       |
| 3        | Supply and install new cable terminations for the existing LV cables.                                                                                                     | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                          |     |      |             |                   |       |
| A5       | <b>Medium Voltage Cables</b>                                                                                                                                              |     |      |             |                   |       |
| 1        | Supply and installation of a new 1 core 70mm <sup>2</sup> 11KV XLPE SWA Cu Cable                                                                                          | 300 | m    |             |                   |       |
| 2        | Supply and installation of a new 1 core 70 mm <sup>2</sup> 11KV XLPE Cable standard termination kit for TRF termination bushings. (3x 1 core termination kits are spares) | 9   | ea   |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                          |     |      |             |                   |       |
| A6       | <b>Electrical, Lighting and Power</b>                                                                                                                                     |     |      |             |                   |       |
| 1        | Design, supply and install a new lighting and small power.                                                                                                                | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                          |     |      |             |                   |       |
| A7       | <b>Transformers</b>                                                                                                                                                       |     |      |             |                   |       |
| 1        | Supply and installation of a new 1250kVA, 11kV/400V Transformer.                                                                                                          | 2   | ea   |             |                   |       |
| 2        | Refurbishment of the existing TRFs                                                                                                                                        | 2   | ea   |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                          |     |      |             |                   |       |
| A8       | <b>Medium Voltage Cable Termination</b>                                                                                                                                   |     |      |             |                   |       |
| 1        | Supply and install new 630A Feeder MV plug type termination designed to EN 50181 and DIN 47637. ( 3x terminations are spares)                                             | ea  | 9    |             |                   |       |

TRANSNET PORT TERMINALS

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| ITEM NO. | ITEM DESCRIPTION                                                                                                                                                                                      | QTY | UNIT | SUPPLY RATE | INSTALLATION RATE | TOTAL |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------------|-------|
| 2        | Supply and install new 1250A Incomer MV plug type termination designed to EN 50181 and DIN 47637. Per phase with each phase with 2x                                                                   | ea  | 12   |             |                   |       |
| 3        | Select, Supply, and install MV trifurcation (150mm <sup>2</sup> , 3 core XLPE to single core SWA XLPE) cable joint.                                                                                   | ea  | 4    |             |                   |       |
| 4        | Supply and installation of a new 1 core 150 mm <sup>2</sup> 11KV XLPE SWA Cu Cable to complete the MV termination.                                                                                    | 200 | m    |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                      |     |      |             |                   |       |
|          |                                                                                                                                                                                                       |     |      |             |                   |       |
| A9       | <b>Earthing and Lightning Protection</b>                                                                                                                                                              |     |      |             |                   |       |
| 1        | Design, supply and install earthing and lightning surge protection for the proposed substation upgrades.                                                                                              | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                      |     |      |             |                   |       |
|          |                                                                                                                                                                                                       |     |      |             |                   |       |
| A10      | <b>Cables, Routes and Building Modifications</b>                                                                                                                                                      |     |      |             |                   |       |
| 1        | Replacement of old chequered plates and sealing of cable entry/exit opening                                                                                                                           | 1   | Sum  |             |                   |       |
| 2        | Building refurbishments.                                                                                                                                                                              | 1   | Sum  |             |                   |       |
| 3        | 316 SS doors                                                                                                                                                                                          | 2   | ea   |             |                   |       |
| 3        | Testing and commissioning of cables.                                                                                                                                                                  | 1   | Sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                      |     |      |             |                   |       |
|          |                                                                                                                                                                                                       |     |      |             |                   |       |
| A11      | <b>Transformer Room Building</b>                                                                                                                                                                      |     |      |             |                   |       |
| 1        | Design and build a new transformer room                                                                                                                                                               | 1   | Sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                      |     |      |             |                   |       |
|          |                                                                                                                                                                                                       |     |      |             |                   |       |
| A12      | <b>Power System Protection</b>                                                                                                                                                                        |     |      |             |                   |       |
| 1        | Load flow, short circuit and protection grading study and configuration.                                                                                                                              | 1   | Sum  |             |                   |       |
| 2        | Provision of a standalone ETAP licenced software.                                                                                                                                                     | 1   | ea   |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                      |     |      |             |                   |       |
|          |                                                                                                                                                                                                       |     |      |             |                   |       |
| A13      | <b>HVAC and Fire</b>                                                                                                                                                                                  |     |      |             |                   |       |
| 1        | Design, supply, installation, testing, commissioning and handover of the fire detection and suppression systems, including dismantling and removal of existing fire detection and suppression systems | 1   | Sum  |             |                   |       |
| 2        | Design, supply, installation, testing, commissioning and handover of the HVAC/climate control plant including dismantling and removal of existing HVAC systems.                                       | 1   | Sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                      |     |      |             |                   |       |
|          |                                                                                                                                                                                                       |     |      |             |                   |       |

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2026/07/0003/114562/RFP

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| ITEM NO. | ITEM DESCRIPTION                                                                                                                                      | QTY | UNIT | SUPPLY RATE | INSTALLATION RATE | TOTAL |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------------|-------|
| A14      | <b>Testing and Commissioning</b>                                                                                                                      |     |      |             |                   |       |
| 1        | Test and commission the entire installation. The contractor shall issue test, certificates, user manuals and as-built drawings.                       | 1   | Sum  |             |                   |       |
|          |                                                                                                                                                       |     |      |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                      |     |      |             |                   |       |
|          | <b>TOTAL (A)</b>                                                                                                                                      |     |      |             |                   |       |
|          |                                                                                                                                                       |     |      |             |                   |       |
| B        | <b>ROAD RAIL</b>                                                                                                                                      |     |      |             |                   |       |
|          |                                                                                                                                                       |     |      |             |                   |       |
| B1       | <b>Preparation works for the proposed substation upgrades</b>                                                                                         |     |      |             |                   |       |
| 1        | Disconnect and removal of the existing MV switchgear, LV switchgear and battery bank to be replaced.                                                  | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                      |     |      |             |                   |       |
|          |                                                                                                                                                       |     |      |             |                   |       |
| B2       | <b>Medium voltage switchgear</b>                                                                                                                      |     |      |             |                   |       |
| 1        | Design, supply and install a new 1250A 11kV incomer VCB panel.                                                                                        | 2   | ea   |             |                   |       |
| 2        | Design and supply a new spare 1250A 11kV incomer VCB panel.                                                                                           | 1   | ea   |             |                   |       |
| 3        | Design, supply and install a new 1250A 11kV bus section VCB panel.                                                                                    | 1   | ea   |             |                   |       |
| 4        | Design, supply and install a new 630 11kV feeder VCB panel.                                                                                           | 5   | ea   |             |                   |       |
| 5        | Design and supply a new spare 630 11kV feeder VCB panel.                                                                                              | 1   | ea   |             |                   |       |
| 6        | Design supply and install a 11V bus-riser panels/bus-bar Earth /VT panels.                                                                            | 1   | ea   |             |                   |       |
| 7        | Design, supply, install and commission a complete arc ducting and protection system for the 11kV switchgear                                           | 1   | Sum  |             |                   |       |
| 8        | Design, supply, install a battery bank (enclosed in a cabinet) and battery terminal unit for the 11kV switchgear complete with protection and wiring. | 1   | sum  |             |                   |       |
| 9        | Provision of racking tools                                                                                                                            | 1   | sum  |             |                   |       |
| 10       | UFES or similar approved technology                                                                                                                   | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                      |     |      |             |                   |       |
|          |                                                                                                                                                       |     |      |             |                   |       |
| B3       | <b>Low voltage switchgear</b>                                                                                                                         |     |      |             |                   |       |
| 1        | Design, supply and install a new LV switchgear including new standard terminations for the existing incomer and feeder.                               | 1   | sum  |             |                   |       |

TRANSNET PORT TERMINALS

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| ITEM NO. | ITEM DESCRIPTION                                                                                                           | QTY | UNIT | SUPPLY RATE | INSTALLATION RATE | TOTAL |
|----------|----------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------------|-------|
| 2        | Design, supply, and install a control panel for the proposed MV switchgear complete with cabling.                          | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                           |     |      |             |                   |       |
|          |                                                                                                                            |     |      |             |                   |       |
| B4       | <b>Electrical, Lighting and Power</b>                                                                                      |     |      |             |                   |       |
| 1        | Design, supply and install new lighting and small power                                                                    | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                           |     |      |             |                   |       |
|          |                                                                                                                            |     |      |             |                   |       |
|          |                                                                                                                            |     |      |             |                   |       |
| B5       | <b>Transformers</b>                                                                                                        |     |      |             |                   |       |
| 1        | Design, supply and install a stainless-steel containment tray around the existing transformers.                            | 3   | ea   |             |                   |       |
| 2        | Refurbish transformer and change transformer oil.                                                                          | 2   | ea   |             |                   |       |
|          | <b>Sub total</b>                                                                                                           |     |      |             |                   |       |
|          |                                                                                                                            |     |      |             |                   |       |
| B6       | <b>Medium Voltage Cable Termination</b>                                                                                    |     |      |             |                   |       |
| 1        | Supply and install new 630A Feeder MV plug type terminations designed to EN 50181 and DIN 47637.                           | 9   | ea   |             |                   |       |
| 2        | Supply and install new 1250A Incomer MV plug type termination designed to EN 50181 and DIN 47637.                          | 12  | ea   |             |                   |       |
| 3        | Select, Supply, and install MV transition joint for incomers and feeders.                                                  | 7   | ea   |             |                   |       |
|          | <b>Sub total</b>                                                                                                           |     |      |             |                   |       |
|          |                                                                                                                            |     |      |             |                   |       |
| B7       | <b>Earthing and Lightning Protection</b>                                                                                   |     |      |             |                   |       |
| 1        | Design, supply and install earthing and lightning surge protection for the proposed substation upgrades.                   | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                           |     |      |             |                   |       |
|          |                                                                                                                            |     |      |             |                   |       |
| B8       | <b>Cables, Routes and Building Modifications</b>                                                                           |     |      |             |                   |       |
| 1        | Replacement of old chequered plates and sealing of cable entry/exit opening                                                | 1   | sum  |             |                   |       |
| 2        | Provisional sum for the building refurbishments.                                                                           | 1   | sum  |             |                   |       |
| 3        | Supply and install 70mm2 XLPE single core SWA Cu Cables to complete the MV plug terminations.                              | 100 | ea   |             |                   |       |
| 4        | Supply and install 150mm2 and 70mm2 XLPE single core SWA Cu Cables to complete the MV plug terminations.                   | 200 | ea   |             |                   |       |
| 5        | Supply and install new 316 SS fire rated doors. Allow for the entrance door for personnel and 1 roller door for switchgear | ea  | 2    |             |                   |       |
|          | <b>Sub total</b>                                                                                                           |     |      |             |                   |       |

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| ITEM NO. | ITEM DESCRIPTION                                                                                                                                                                                      | QTY | UNIT | SUPPLY RATE | INSTALLATION RATE | TOTAL |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------------|-------|
| B9       | <b>HVAC and Fire</b>                                                                                                                                                                                  |     |      |             |                   |       |
| 1        | Design, supply, installation, testing, commissioning and handover of the fire detection and suppression systems, including dismantling and removal of existing fire detection and suppression systems | 1   | sum  |             |                   |       |
| 2        | Design, supply, installation, testing, commissioning and handover of the HVAC/climate control plant including dismantling and removal of existing HVAC systems.                                       | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                      |     |      |             |                   |       |
| B10      | <b>Testing and Commissioning</b>                                                                                                                                                                      |     |      |             |                   |       |
| 1        | Test and commission the entire installation. The contractor shall issue tests, certificates, user manuals and as-built drawings.                                                                      | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                      |     |      |             |                   |       |
|          | <b>TOTAL (B)</b>                                                                                                                                                                                      |     |      |             |                   |       |
| C        | <b>CAE SUBSTATION</b>                                                                                                                                                                                 |     |      |             |                   |       |
| C1       | <b>Preparation works for the proposed substation upgrades</b>                                                                                                                                         |     |      |             |                   |       |
| 1        | Disconnect and removal of the existing MV switchgear, LV switchgear and battery bank to be replaced.                                                                                                  | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                      |     |      |             |                   |       |
| C2       | <b>Medium voltage switchgear</b>                                                                                                                                                                      |     |      |             |                   |       |
| 1        | Design, supply and install a new 1250A 11kV incomer VCB panel.                                                                                                                                        | 2   | ea   |             |                   |       |
| 2        | Design and supply and a new spare 1250A 11kV incomer VCB panel.                                                                                                                                       | 1   | ea   |             |                   |       |
| 3        | Design, supply and install a new 1250A 11kV bus section VCB panel.                                                                                                                                    | 1   | ea   |             |                   |       |
| 4        | Design, supply and install a new 630 11kV feeder VCB panel.                                                                                                                                           | 3   | ea   |             |                   |       |
| 5        | Design, supply a new spare 630 11kV feeder VCB panel.                                                                                                                                                 | 1   | ea   |             |                   |       |
| 6        | Design supply and install a 11kV bus-riser panels/bus-bar Earth /VT panels.                                                                                                                           | 1   | ea   |             |                   |       |
| 7        | Design, supply, install and commission a complete arc ducting and protection system for the 11kV switchgear                                                                                           | 1   | Sum  |             |                   |       |

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| ITEM NO. | ITEM DESCRIPTION                                                                                                                                      | QTY | UNIT | SUPPLY RATE | INSTALLATION RATE | TOTAL |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------------|-------|
| 8        | Design, supply, install a battery bank (enclosed in a cabinet) and battery terminal unit for the 11kV switchgear complete with protection and wiring. | 1   | sum  |             |                   |       |
| 9        | Provision of racking tools                                                                                                                            | 1   | sum  |             |                   |       |
| 10       | UFES or similar approved technology                                                                                                                   | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                      |     |      |             |                   |       |
|          |                                                                                                                                                       |     |      |             |                   |       |
| C3       | <b>Low voltage switchgear</b>                                                                                                                         |     |      |             |                   |       |
| 1        | Design, supply and install a new LV switchgear including new standard terminations for the existing incomer and feeder.                               | 1   | sum  |             |                   |       |
| 2        | design, supply, and install a control panel for the proposed MV switchgear complete with cabling.                                                     | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                      |     |      |             |                   |       |
|          |                                                                                                                                                       |     |      |             |                   |       |
| C4       | <b>Electrical, Lighting and Power</b>                                                                                                                 |     |      |             |                   |       |
| 1        | Design, supply and install new lighting and small power                                                                                               | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                      |     |      |             |                   |       |
|          |                                                                                                                                                       |     |      |             |                   |       |
|          |                                                                                                                                                       |     |      |             |                   |       |
| C5       | <b>Transformers</b>                                                                                                                                   |     |      |             |                   |       |
| 1        | Design, supply and install a stainless-steel containment tray around the existing transformers                                                        | 2   | ea   |             |                   |       |
| 2        | Refurbish the existing transformer and change transformer oil.                                                                                        | 2   | ea   |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                      |     |      |             |                   |       |
|          |                                                                                                                                                       |     |      |             |                   |       |
|          |                                                                                                                                                       |     |      |             |                   |       |
| C6       | <b>Medium Voltage Cable Termination</b>                                                                                                               |     |      |             |                   |       |
| 1        | Supply and install new 630A Feeder MV plug type terminations designed to EN 50181 and DIN 47637.                                                      | 9   | ea   |             |                   |       |
| 2        | Supply and install new 1250A Incomer MV plug type terminations designed to EN 50181 and DIN 47637.                                                    | 12  | ea   |             |                   |       |
| 3        | Select, Supply, and install MV transition (3 core Paper oil impregnated to single core XLPE cable joints.                                             | 7   | ea   |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                      |     |      |             |                   |       |
|          |                                                                                                                                                       |     |      |             |                   |       |
|          |                                                                                                                                                       |     |      |             |                   |       |
| C7       | <b>Earthing and Lightning Protection</b>                                                                                                              |     |      |             |                   |       |
| 1        | Design, supply and install earthing and lightning surge protection for the proposed substation upgrades.                                              | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                      |     |      |             |                   |       |

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT/2026/07/0003/114562/RFP

DESCRIPTION OF THE WORKS: REFURBISHMENT OF SUBSTATIONS AT THE PORT OF CAPE TOWN, CONTAINER TERMINAL OF TRANSNET SOC LTD (REG.NO.1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS, (HEREINAFTER REFERRED TO AS "TPT") FOR A PERIOD OF TWENTY-FOUR (24) MONTHS

| ITEM NO. | ITEM DESCRIPTION                                                                                                                                                                                       | QTY  | UNIT | SUPPLY RATE | INSTALLATION RATE | TOTAL |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------------|-------------------|-------|
| C8       | <b>Cables, Routes and Building Modifications</b>                                                                                                                                                       |      |      |             |                   |       |
| 1        | Replacement of old chequered plates and sealing of cable entry/exit opening                                                                                                                            | 1    | sum  |             |                   |       |
| 2        | Provisional for the building refurbishments.                                                                                                                                                           | 1    | sum  |             |                   |       |
| 3        | Provisional for the testing and provision of XLPE cables.                                                                                                                                              | 1    | sum  |             |                   |       |
| 4        | Supply and installation of a 150mm <sup>2</sup> 11kV, CU 3 core XLPE SWA cable.                                                                                                                        | 1500 | m    |             |                   |       |
| 5        | Supply and install concrete culverts to protect the MV cable.                                                                                                                                          | 1500 | m    |             |                   |       |
| 6        | Supply and install 70mm <sup>2</sup> XLPE single core SWA Cu Cables to complete the MV plug terminations.                                                                                              | 100  | m    |             |                   |       |
| 7        | Supply and install 150mm <sup>2</sup> XLPE single core SWA Cu Cables to complete the MV plug terminations.                                                                                             | 200  | m    |             |                   |       |
|          | Supply and install new 316 SS fire rated doors. Exclude roller doors for TRFs.                                                                                                                         | 3    | ea   |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                       |      |      |             |                   |       |
|          |                                                                                                                                                                                                        |      |      |             |                   |       |
| C9       | <b>HVAC and Fire</b>                                                                                                                                                                                   |      |      |             |                   |       |
| 1        | Design, supply, installation, testing, commissioning and handover of the fire detection and suppression systems, including dismantling and removal of existing fire detection and suppression systems. | 1    | sum  |             |                   |       |
| 2        | Design, supply, installation, testing, commissioning and handover of the HVAC/climate control plant including dismantling and removal of existing HVAC systems.                                        | 1    | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                       |      |      |             |                   |       |
|          |                                                                                                                                                                                                        |      |      |             |                   |       |
|          |                                                                                                                                                                                                        |      |      |             |                   |       |
|          |                                                                                                                                                                                                        |      |      |             |                   |       |
|          |                                                                                                                                                                                                        |      |      |             |                   |       |
|          |                                                                                                                                                                                                        |      |      |             |                   |       |
| C10      | <b>Testing and Commissioning</b>                                                                                                                                                                       |      |      |             |                   |       |
| 1        | Test and commission the entire installation. The contractor shall issue tests, certificates, user manuals and as-built drawings.                                                                       | 1    | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                       |      |      |             |                   |       |
|          | <b>TOTAL (C)</b>                                                                                                                                                                                       |      |      |             |                   |       |
|          |                                                                                                                                                                                                        |      |      |             |                   |       |
| D        | <b>REFRIGERATION SUBSTATION</b>                                                                                                                                                                        |      |      |             |                   |       |

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| ITEM NO. | ITEM DESCRIPTION                                                                                                                                      | QTY | UNIT | SUPPLY RATE | INSTALLATION RATE | TOTAL |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------------|-------|
| D1       | <b>Preparation works for the proposed substation upgrades</b>                                                                                         |     |      |             |                   |       |
| 1        | Disconnect and removal of the existing MV switchgear, LV switchgear and battery bank to be replaced.                                                  | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                      |     |      |             |                   |       |
| D2       | <b>Medium voltage switchgear</b>                                                                                                                      |     |      |             |                   |       |
| 1        | Design, supply and install a new 1250A 11kV incomer VCB panel.                                                                                        | 2   | ea   |             |                   |       |
| 2        | Design and supply a new spare 1250A 11kV incomer VCB panel.                                                                                           | 1   | ea   |             |                   |       |
| 3        | Design, supply and install a new 1250A 11kV bus section VCB panel.                                                                                    | 1   | ea   |             |                   |       |
| 4        | Design, supply and install a new 630 11kV feeder VCB panel.                                                                                           | 6   | ea   |             |                   |       |
| 5        | Design, supply a new spare 630 11kV feeder VCB panel.                                                                                                 | 1   | ea   |             |                   |       |
| 6        | Design, supply and install a 11kV bus-riser panels/bus-bar Earth /VT panels.                                                                          | 1   | ea   |             |                   |       |
| 7        | Design, supply, install and commission a complete arc ducting and protection system for the 11kV switchgear                                           | 1   | Sum  |             |                   |       |
| 8        | Design, supply, install a battery bank (enclosed in a cabinet) and battery terminal unit for the 11kV switchgear complete with protection and wiring. | 1   | sum  |             |                   |       |
| 9        | Provision of racking tools                                                                                                                            | 1   | sum  |             |                   |       |
| 10       | UFES or similar approved technology                                                                                                                   | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                      |     |      |             |                   |       |
| D3       | <b>Low voltage switchgear</b>                                                                                                                         |     |      |             |                   |       |
| 1        | Design, supply and install a new LV switchgear including new standard terminations for the existing incomer and feeder.                               | 1   | sum  |             |                   |       |
| 2        | design, supply, and install a control panel for the proposed MV switchgear complete with cabling.                                                     | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                      |     |      |             |                   |       |
| D4       | <b>Electrical, Lighting and Power</b>                                                                                                                 |     |      |             |                   |       |
| 1        | Design, supply and install new lighting and small power                                                                                               | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                      |     |      |             |                   |       |
| D5       | <b>Transformers</b>                                                                                                                                   |     |      |             |                   |       |

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| ITEM NO. | ITEM DESCRIPTION                                                                                                                                                                                       | QTY | UNIT | SUPPLY RATE | INSTALLATION RATE | TOTAL |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------------|-------|
| 1        | Design, supply and install a stainless-steel containment tray around the existing transformers                                                                                                         | 2   | ea   |             |                   |       |
| 2        | Refurbish transformer and change transformer oil.                                                                                                                                                      | 2   | ea   |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                       |     |      |             |                   |       |
|          |                                                                                                                                                                                                        |     |      |             |                   |       |
| D6       | <b>Medium Voltage Cable Termination</b>                                                                                                                                                                |     |      |             |                   |       |
| 1        | Supply new 630A Feeder MV plug type terminations designed to EN 50181 and DIN 47637.                                                                                                                   | 18  | ea   |             |                   |       |
| 2        | Supply new 1250A Incomer MV plug type terminations designed to EN 50181 and DIN 47637.                                                                                                                 | 12  | ea   |             |                   |       |
| 3        | Select, Supply, and install MV transition (3 core Paper oil impregnated to single core XLPE cable joints.                                                                                              | 10  | ea   |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                       |     |      |             |                   |       |
|          |                                                                                                                                                                                                        |     |      |             |                   |       |
| D7       | <b>Earthing and Lightning Protection</b>                                                                                                                                                               |     |      |             |                   |       |
| 1        | Design, supply and install earthing and lightning surge protection for the proposed substation upgrades.                                                                                               | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                       |     |      |             |                   |       |
|          |                                                                                                                                                                                                        |     |      |             |                   |       |
| D8       | <b>Cables, Routes and Building Modifications</b>                                                                                                                                                       |     |      |             |                   |       |
| 1        | Replacement of old chequered plates and sealing of cable entry/exit opening                                                                                                                            | 1   | sum  |             |                   |       |
| 2        | Provisional sum for the building refurbishments.                                                                                                                                                       | 1   | sum  |             |                   |       |
| 3        | Testing and commissioning cables.                                                                                                                                                                      | 1   | sum  |             |                   |       |
| 4        | Supply and install 70mm <sup>2</sup> XLPE single core SWA Cu Cables to complete the MV plug terminations.                                                                                              | 100 | m    |             |                   |       |
| 5        | Supply and install 150mm <sup>2</sup> XLPE single core SWA Cu Cables to complete the MV plug terminations.                                                                                             | 200 | m    |             |                   |       |
| 6        | Supply and install new 316 SS fire rated doors. Exclude roller doors for TRFs.                                                                                                                         | 3   | ea   |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                       |     |      |             |                   |       |
|          |                                                                                                                                                                                                        |     |      |             |                   |       |
| D9       | <b>HVAC and Fire</b>                                                                                                                                                                                   |     |      |             |                   |       |
| 1        | Design, supply, installation, testing, commissioning and handover of the fire detection and suppression systems, including dismantling and removal of existing fire detection and suppression systems. | 1   | sum  |             |                   |       |
| 2        | Design, supply, installation, testing, commissioning and handover of the HVAC/climate control plant including dismantling and removal of existing HVAC systems.                                        | 1   | sum  |             |                   |       |

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| ITEM NO. | ITEM DESCRIPTION                                                                                                                                      | QTY | UNIT | SUPPLY RATE | INSTALLATION RATE | TOTAL |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------------|-------|
|          | <b>Sub total</b>                                                                                                                                      |     |      |             |                   |       |
|          |                                                                                                                                                       |     |      |             |                   |       |
| D10      | <b>Testing and Commissioning</b>                                                                                                                      |     |      |             |                   |       |
| 1        | Test and commission the entire installation. The contractor shall issue tests, certificates, user manuals and as-built drawings.                      | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                      |     |      |             |                   |       |
|          | <b>TOTAL (D)</b>                                                                                                                                      |     |      |             |                   |       |
|          |                                                                                                                                                       |     |      |             |                   |       |
| E        | <b>COASTER BERTH SUBSTATION</b>                                                                                                                       |     |      |             |                   |       |
|          |                                                                                                                                                       |     |      |             |                   |       |
| E1       | <b>Preparation works for the proposed substation upgrades</b>                                                                                         |     |      |             |                   |       |
| 1        | Disconnect and removal of the existing MV switchgear, LV switchgear and battery bank to be replaced.                                                  | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                      |     |      |             |                   |       |
|          |                                                                                                                                                       |     |      |             |                   |       |
| E2       | <b>Medium voltage switchgear</b>                                                                                                                      |     |      |             |                   |       |
| 1        | Design, supply and install a new 1250A 11kV incomer VCB panel.                                                                                        | 2   | ea   |             |                   |       |
| 2        | Design and supply a new spare 1250A 11kV incomer VCB panel.                                                                                           | 1   | ea   |             |                   |       |
| 3        | Design, supply and install a new 1250A 11kV bus section VCB panel.                                                                                    | 1   | ea   |             |                   |       |
| 4        | Design, supply and install a new 630 11kV feeder VCB panel.                                                                                           | 4   | ea   |             |                   |       |
| 5        | Design, and supply a new spare 630 11kV feeder VCB panel.                                                                                             | 1   | ea   |             |                   |       |
| 6        | Design, supply and install a 11kV bus-riser panels/bus-bar Earth /VT panels.                                                                          | 1   | ea   |             |                   |       |
| 7        | Design, supply, install and commission a complete arc ducting and protection system for the 11kV switchgear                                           | 1   | Sum  |             |                   |       |
| 8        | Design, supply, install a battery bank (enclosed in a cabinet) and battery terminal unit for the 11kV switchgear complete with protection and wiring. | 1   | sum  |             |                   |       |
| 9        | Provision of racking tools                                                                                                                            | 1   | sum  |             |                   |       |
| 10       | UFES of similar approved technology                                                                                                                   | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                      |     |      |             |                   |       |
|          |                                                                                                                                                       |     |      |             |                   |       |
| E3       | <b>Low voltage switchgear</b>                                                                                                                         |     |      |             |                   |       |

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| ITEM NO. | ITEM DESCRIPTION                                                                                                        | QTY | UNIT | SUPPLY RATE | INSTALLATION RATE | TOTAL |
|----------|-------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------------|-------|
| 1        | Design, supply and install a new LV switchgear including new standard terminations for the existing incomer and feeder. | 1   | sum  |             |                   |       |
| 2        | Design, supply, and install a control panel for the proposed MV switchgear complete with cabling.                       | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                        |     |      |             |                   |       |
|          |                                                                                                                         |     |      |             |                   |       |
| E4       | <b>Electrical, Lighting and Power</b>                                                                                   |     |      |             |                   |       |
| 1        | Design, supply and install new lighting and small power                                                                 | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                        |     |      |             |                   |       |
|          |                                                                                                                         |     |      |             |                   |       |
| E5       | <b>Transformers</b>                                                                                                     |     |      |             |                   |       |
| 1        | Design supply and install a stainless-steel containment tray around the existing transformers.                          | 4   | ea   |             |                   |       |
| 2        | Refurbish transformer and change transformer oil.                                                                       | 4   | ea   |             |                   |       |
|          | <b>Sub total</b>                                                                                                        |     |      |             |                   |       |
|          |                                                                                                                         |     |      |             |                   |       |
| E6       | <b>Medium Voltage Cable Termination</b>                                                                                 |     |      |             |                   |       |
| 1        | Supply and install new 630A Feeder MV plug type terminations designed to EN 50181 and DIN 47637.                        | 12  | ea   |             |                   |       |
| 2        | Supply and install new 1250A Incomer MV plug type terminations designed to EN 50181 and DIN 47637.                      | 12  | ea   |             |                   |       |
| 3        | Select, Supply, and install MV transition (3 core Paper oil impregnated to single core XLPE cable joints.               | 8   | ea   |             |                   |       |
|          | <b>Sub total</b>                                                                                                        |     |      |             |                   |       |
|          |                                                                                                                         |     |      |             |                   |       |
| E7       | <b>Earthing and Lightning Protection</b>                                                                                |     |      |             |                   |       |
| 1        | Design, supply and install earthing and lightning surge protection for the proposed substation upgrades.                | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                        |     |      |             |                   |       |
|          |                                                                                                                         |     |      |             |                   |       |
| E8       | <b>Cables, Routes and Building Modifications</b>                                                                        |     |      |             |                   |       |
| 1        | Replacement of old chequered plates and sealing of cable entry/exit opening                                             | 1   | sum  |             |                   |       |
| 2        | Provisional for the building refurbishments.                                                                            | 1   | sum  |             |                   |       |
| 3        | Provisional for the testing and provision of XLPE cables.                                                               | 1   | sum  |             |                   |       |
| 4        | Supply and install 70mm <sup>2</sup> XLPE single core SWA Cu Cables to complete the MV plug terminations.               | 100 | m    |             |                   |       |
| 5        | Supply and install 150mm <sup>2</sup> XLPE single core SWA Cu Cables to complete the MV plug terminations.              | 200 | m    |             |                   |       |

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| ITEM NO. | ITEM DESCRIPTION                                                                                                                                                                                       | QTY | UNIT | SUPPLY RATE | INSTALLATION RATE | TOTAL |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------------|-------|
| 6        | Supply and install new 316 SS fire rated doors.                                                                                                                                                        | 3   | ea   |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                       |     |      |             |                   |       |
|          |                                                                                                                                                                                                        |     |      |             |                   |       |
| E9       | <b>HVAC and Fire</b>                                                                                                                                                                                   |     |      |             |                   |       |
| 1        | Design, supply, installation, testing, commissioning and handover of the fire detection and suppression systems, including dismantling and removal of existing fire detection and suppression systems. | 1   | sum  |             |                   |       |
| 2        | Design, supply, installation, testing, commissioning, handover of the HVAC/climate control plant including dismantling and removal of existing HVAC systems.                                           | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                       |     |      |             |                   |       |
|          |                                                                                                                                                                                                        |     |      |             |                   |       |
| E10      | <b>Testing and Commissioning</b>                                                                                                                                                                       |     |      |             |                   |       |
| 1        | Test and commission the entire installation. The contractor shall issue tests, certificates, user manuals and as-built drawings.                                                                       | 1   | sum  |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                       |     |      |             |                   |       |
|          | <b>TOTAL (E)</b>                                                                                                                                                                                       |     |      |             |                   |       |
|          |                                                                                                                                                                                                        |     |      |             |                   |       |
| F        | <b>Generator</b>                                                                                                                                                                                       |     |      |             |                   |       |
|          |                                                                                                                                                                                                        |     |      |             |                   |       |
| F1       | <b>Preparation works for the proposed substation upgrades</b>                                                                                                                                          |     |      |             |                   |       |
|          |                                                                                                                                                                                                        |     |      |             |                   |       |
| 1        | Provision of the generator as per the Transnet Specification                                                                                                                                           | 1   | ea   |             |                   |       |
|          | <b>Sub total</b>                                                                                                                                                                                       |     |      |             |                   |       |
|          | <b>TOTAL (F)</b>                                                                                                                                                                                       |     |      |             |                   |       |
|          |                                                                                                                                                                                                        |     |      |             |                   |       |
|          | <b>TOTAL TENDER AMOUNT</b>                                                                                                                                                                             |     |      |             |                   |       |
|          | <b>TOTAL CONTRACT VALUE</b>                                                                                                                                                                            |     |      |             |                   |       |

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| ITEM | DESCRIPTION                                                                                                                                                                                                                                             | UNIT                             | QTY                                   | AMOUNT       |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------|--------------|
|      | SUMMARY                                                                                                                                                                                                                                                 |                                  |                                       |              |
|      | SECTION 1                                                                                                                                                                                                                                               |                                  |                                       |              |
| 1    | Preliminary and General                                                                                                                                                                                                                                 | sum                              | 1                                     |              |
|      | SECTION 2                                                                                                                                                                                                                                               |                                  |                                       |              |
| A    | Container Admin Building                                                                                                                                                                                                                                | sum                              | 1                                     |              |
| B    | Road Rail Building                                                                                                                                                                                                                                      | sum                              | 1                                     |              |
| C    | CAE Building                                                                                                                                                                                                                                            | sum                              | 1                                     |              |
| D    | Refrigeration Building                                                                                                                                                                                                                                  | sum                              | 1                                     |              |
| E    | Coaster Berth                                                                                                                                                                                                                                           | sum                              | 1                                     |              |
| F    | Generator                                                                                                                                                                                                                                               | sum                              | 1                                     |              |
|      | <b><u>TOTAL DIRECT COST</u></b>                                                                                                                                                                                                                         |                                  |                                       |              |
|      | The Contractor shall achieve in the performance of the contract the Contract Skills Development Goal (CSDG) established in the CIDB Standard for Developing skills through Infrastructure Contract, publish in Gazette Notice No.48491 of 28 April 2023 |                                  |                                       |              |
|      |                                                                                                                                                                                                                                                         |                                  |                                       |              |
|      |                                                                                                                                                                                                                                                         | <b>Percentage (%)<br/>factor</b> | <b>Sub-total of<br/>Tender Amount</b> | <b>Total</b> |
|      | <b><u>Contract Skills Development Goal (CSDG)</u></b><br><br>Minimum Contract Skills Development Goal (CSDG) sum = (0.25%) x Subtotal of the tendered amount                                                                                            | <b>0.25%</b>                     |                                       |              |
|      | <b><u>Provisional Sum – B.U.I.L.D Programme Participation Fee</u></b><br><br>B.U.I.L.D Participation Fee = (0.2%) x Subtotal of the tendered amount)                                                                                                    | <b>0.2%</b>                      |                                       |              |
|      | <b>Total direct cost Incl ( B.U.I.L.D Participation Fee and CSDG amount )</b>                                                                                                                                                                           |                                  |                                       |              |
|      | <b>VAT 15% (if applicable)</b>                                                                                                                                                                                                                          |                                  |                                       |              |
|      | <b>Total Price, Inclusive of VAT (where applicable)</b>                                                                                                                                                                                                 |                                  |                                       |              |

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**Note:** Total of the Prices must be transferred to the Form of Offer

**NOTE:**

- Prices must be quoted in South African Rand, exclusive VAT.
- The operations personnel that will be made available for familiarisation training are existing Equipment Coordinators of the machines.
- Bidders are required to price each and every line item, failure to do so will result in disqualification.
- To facilitate like-for-like comparison bidders must submit pricing strictly in accordance with this pricing schedule and not utilise a different format. Deviation from this pricing schedule could result in a bid being declared nonresponsive.
- A provisional sum has been allowed for items that are miscellaneous and difficult to quantify because of the status that might change and the final nature of work that can only be properly defined during the execution. The allocated provisional sum is an estimate that is provided by the employer and will be claimed as per the defined cost process upon clearly defining the scope.
- Pricing above should include all costs associated with delivering this service, no other costs will be considered outside of the price submitted.