



public works  
& infrastructure

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Department:  
Public Works and Infrastructure  
**REPUBLIC OF SOUTH AFRICA**

**REFERENCE NO.**

**TENDER NO: MTH59/2022**

**DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL  
SUPPLY INSTALLATION AND EQUIPMENT:  
(WCS 044256)**

**VOLUME 1  
TENDERING PROCEDURES**

**ISSUED BY:  
DEPARTMENT OF PUBLIC WORKS  
PRD II BUILDING  
SUTHERLAND STREET  
MTHATHA  
5100  
25270  
CONTACT PERSON:  
MS. ASIVE LOMNTU  
TEL: (047) 502 7030**

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T1.1

Tender Notice and Invitation to Tender

## **T.1.1: Tender Notice and Invitation to Tender**

# PA-04 (EC): NOTICE AND INVITATION TO TENDER

THE DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE INVITES TENDERS FOR:

|                       |  |
|-----------------------|--|
| <b>Project title:</b> | DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT |
|-----------------------|--|

|                          |                 |                         |                             |
|--------------------------|-----------------|-------------------------|-----------------------------|
| <b>Tender no:</b>        | MTH59/2022      | <b>Reference no:</b>    |                             |
| <b>Advertising date:</b> | 20 January 2023 | <b>Closing date:</b>    | 10 February 2023            |
| <b>Closing time:</b>     | 11H00           | <b>Validity period:</b> | 84 calendar days (12 Weeks) |

## 1. REQUIRED CIDB GRADING

It is estimated that tenderers should have a CIDB contractor grading designation of 4 **EB** or *Not applicable Not applicable\** or higher.

*\* Delete "or select tender value range select class of construction works" where only one class of construction works is applicable*

It is estimated that potentially emerging enterprises should have a CIDB contractor grading designation of Not applicable **Not applicable PE** or *Not applicable Not applicable PE\** or higher.

*\* Delete "or select tender value range select class of construction works PE" where only one class of construction works is applicable*

## 2. RESPONSIVENESS CRITERIA

### 2.1 Substantive responsiveness criteria

Only tenderers who are responsive to the following substantive responsiveness criteria are eligible to submit tenders. Failure to comply with the criteria stated hereunder shall result in the tender offer being disqualified from further consideration:

|    |                                     |  |
|----|-------------------------------------|--|
| 1  | <input checked="" type="checkbox"/> | Only those tenderers who satisfy the eligibility criteria stated in the Tender Data may submit tenders.  |
| 2  | <input checked="" type="checkbox"/> | Tender offer must be properly received on the tender closing date and time specified on the invitation, fully completed either electronically (if issued in electronic format), or by writing legibly in non-erasable ink. (All as per Standard Conditions of Tender). |
| 3  | <input checked="" type="checkbox"/> | Use of correction fluid is prohibited.   |
| 4  | <input checked="" type="checkbox"/> | Submission of (DPW-07 EC): Form of Offer and Acceptance.   |
| 5  | <input checked="" type="checkbox"/> | Submission of (PA-16): Preference points claim form in terms of the Preferential Procurement Regulations 2017.   |
| 6  | <input checked="" type="checkbox"/> | Submission of (PA – 36 and Annexure/s C): Declaration Certificate for Local Production and Content for designated sectors.   |
| 7  | <input checked="" type="checkbox"/> | Submission of DPW-09 (EC): Particulars of Tenderer's Projects.   |
| 8  | <input type="checkbox"/>            | Submission of DPW-16 (EC): Site Inspection Meeting Certificate   |
| 9  | <input checked="" type="checkbox"/> | Submission of record of attending compulsory virtual bid clarification / site inspection meeting.  |
| 10 | <input checked="" type="checkbox"/> | Submission of DPW-21 (EC): Record of Addenda to tender documents   |
| 11 | <input type="checkbox"/>            | The tenderer shall submit his fully priced Bills of Quantities / Lump Sum Document (complete document inclusive of all parts) together with his tender.  |

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|    |                          |   |
|----|--------------------------|---|
| 12 | <input type="checkbox"/> | The tenderer shall submit his fully priced and completed sectional summary- and final summary pages with the tender.                    |
| 13 | <input type="checkbox"/> | Submission of Proof of 30% Subcontracting participation and related documents in terms of the Preferential Procurement Regulations 2017 |
| 14 | <input type="checkbox"/> |   |
| 15 | <input type="checkbox"/> |   |
| 16 | <input type="checkbox"/> |   |
| 17 | <input type="checkbox"/> |   |
| 18 | <input type="checkbox"/> |   |

**2.2 Administrative responsiveness criteria**

The Employer reserves the right to request further information regarding the undermentioned criteria. Failing to submit further clarification and/or documentation within seven (7) calendar days from request or as specifically indicated, will disqualify the tender offer from further consideration.

|    |                                     |  |
|----|-------------------------------------|--|
| 1  | <input checked="" type="checkbox"/> | Any correction to be initialled by the person authorised to sign the tender documentation as per PA 15.1 or PA 15.2 resolution of board/s of directors / or PA15.3 Special Resolution of Consortia or JV's .   |
| 2  | <input checked="" type="checkbox"/> | Submission of applicable (PA-15.1, PA-15.2, PA-15.3): Resolution by the legal entity, or consortium / joint venture, authorising a dedicated person(s) to sign documents on behalf of the firm / consortium / joint venture.                           |
| 3  | <input checked="" type="checkbox"/> | Submission of (PA-11): Bidder's disclosure.  |
| 4  | <input checked="" type="checkbox"/> | Submission of (PA 40): Declaration of Designated Groups for Preferential Procurement.  |
| 5  | <input checked="" type="checkbox"/> | Submission of proof of Registration on National Treasury's Central Supplier Database (CSD).  |
| 6  | <input checked="" type="checkbox"/> | Submission of DPW-15 (EC): Schedule of proposed sub-contractors  |
| 7  | <input type="checkbox"/>            | The tenderer shall submit his fully priced Bills of Quantities (complete document inclusive of all parts) within 14 days from request.   |
| 8  | <input checked="" type="checkbox"/> | Upon request, submission of fingerprints obtainable from local SAPS including any other additional documentation and information required for vetting purposes.  |
| 9  | <input checked="" type="checkbox"/> | Upon request, submission of a fully completed security clearance application form with supporting documentation and information as required. The security clearance form will be provided by the Employer for projects requiring a security clearance. |
| 10 | <input checked="" type="checkbox"/> | The tenderer shall submit his fully priced Bills of Quantities complete document inclusive of all parts.   |
| 11 | <input type="checkbox"/>            |  |
| 12 | <input type="checkbox"/>            |  |
| 13 | <input type="checkbox"/>            |  |
| 14 | <input type="checkbox"/>            |  |
| 15 | <input type="checkbox"/>            |  |

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### 3. PRE-QUALIFICATION CRITERIA

**Preferential procurement:** Applicable

Tenderer must comply with the Pre-qualification criteria for Preferential Procurement listed below

|                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <p>A tenderer having stipulated minimum B-BBEE status level of contributor:</p> <p><input checked="" type="checkbox"/> Level 1<br/>or<br/><input checked="" type="checkbox"/> Level 2<br/>or<br/><input type="checkbox"/> Level 3</p>  |
| <input type="checkbox"/>            | An EME or QSE  |
| <input type="checkbox"/>            | <p>A tenderer subcontracting a minimum of 30% to:</p> <p><input type="checkbox"/> An EME or QSE which is at least 51% owned by black people<br/> <input type="checkbox"/> An EME or QSE which is at least 51% owned by black people who are youth<br/> <input type="checkbox"/> An EME or QSE which is at least 51% owned by black people who are women<br/> <input type="checkbox"/> An EME or QSE which is at least 51% owned by black people with disabilities<br/> <input type="checkbox"/> An EME or QSE which is at least 51% owned by black people living in rural or underdeveloped areas or townships<br/> <input type="checkbox"/> A co-operative which is at least 51% owned by black people<br/> <input type="checkbox"/> An EME or QSE which is at least 51% owned by black people who are Military veterans<br/> <input type="checkbox"/> An EME or QSE;</p> |

**Functionality: Applicable**

**Note:** All bids involving the acquisition of engineering and construction works from cidb Grade 4 and above are subjected to functionality.

**Note:** Functionality will be applied as a prequalification criterion. Such criteria are used to establish minimum requirements where after bids will be evaluated solely on the basis of price and preference.

| <b>Minimum functionality score to qualify for further evaluation:</b>  | 65                       |        |        |  |   |    |                                 |   |    |                                  |   |    |                                      |   |    |           |   |    |           |   |    |    |
|--|--------------------------|--------|--------|--|---|----|---------------------------------|---|----|----------------------------------|---|----|--------------------------------------|---|----|-----------|---|----|-----------|---|----|----|
| <b>Functionality criteria:</b>   | <b>Weighting factor:</b> |        |        |  |   |    |                                 |   |    |                                  |   |    |                                      |   |    |           |   |    |           |   |    |    |
| <p>1. Provision of Bank Rating Certificate with a bank stamp</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 20%; text-align: center;">SCORE</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td>POINTS</td> <td></td> <td></td> </tr> <tr> <td>Grade A =</td> <td style="text-align: center;">5</td> <td style="text-align: center;">25</td> </tr> <tr> <td>Grade B =</td> <td style="text-align: center;">4</td> <td style="text-align: center;">20</td> </tr> <tr> <td>Grade C =</td> <td style="text-align: center;">3</td> <td style="text-align: center;">15</td> </tr> <tr> <td>Grade D =</td> <td style="text-align: center;">2</td> <td style="text-align: center;">10</td> </tr> <tr> <td>Grade E =</td> <td style="text-align: center;">1</td> <td style="text-align: center;">05</td> </tr> </tbody> </table>  |                          | SCORE  |        | POINTS                                     |   |    | Grade A =                       | 5 | 25 | Grade B =                        | 4 | 20 | Grade C =                            | 3 | 15 | Grade D = | 2 | 10 | Grade E = | 1 | 05 | 25 |
|  | SCORE                    |        |        |  |   |    |                                 |   |    |                                  |   |    |                                      |   |    |           |   |    |           |   |    |    |
| POINTS   |                          |        |        |  |   |    |                                 |   |    |                                  |   |    |                                      |   |    |           |   |    |           |   |    |    |
| Grade A =  | 5                        | 25     |        |  |   |    |                                 |   |    |                                  |   |    |                                      |   |    |           |   |    |           |   |    |    |
| Grade B =  | 4                        | 20     |        |  |   |    |                                 |   |    |                                  |   |    |                                      |   |    |           |   |    |           |   |    |    |
| Grade C =  | 3                        | 15     |        |  |   |    |                                 |   |    |                                  |   |    |                                      |   |    |           |   |    |           |   |    |    |
| Grade D =  | 2                        | 10     |        |  |   |    |                                 |   |    |                                  |   |    |                                      |   |    |           |   |    |           |   |    |    |
| Grade E =  | 1                        | 05     |        |  |   |    |                                 |   |    |                                  |   |    |                                      |   |    |           |   |    |           |   |    |    |
| <p>2. Provide detailed Company Organogram, CVs and qualifications (Built Environment) of the Key Staff assigned to the project. (Key Staff examples: CONTRACTS MANAGER/ SITE AGENT)</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 20%; text-align: center;">SCORE</th> <th style="width: 20%; text-align: center;">POINTS</th> </tr> </thead> <tbody> <tr> <td>Qualification: Honours and above (NQF 8) =</td> <td style="text-align: center;">5</td> <td style="text-align: center;">20</td> </tr> <tr> <td>Qualification: Degree (NQF 7) =</td> <td style="text-align: center;">4</td> <td style="text-align: center;">15</td> </tr> <tr> <td>Qualification: Diploma (NQF 6) =</td> <td style="text-align: center;">3</td> <td style="text-align: center;">10</td> </tr> <tr> <td>Qualification: Certificate (NQF 5) =</td> <td style="text-align: center;">2</td> <td style="text-align: center;">5</td> </tr> </tbody> </table> |                          | SCORE  | POINTS | Qualification: Honours and above (NQF 8) = | 5 | 20 | Qualification: Degree (NQF 7) = | 4 | 15 | Qualification: Diploma (NQF 6) = | 3 | 10 | Qualification: Certificate (NQF 5) = | 2 | 5  | 20        |   |    |           |   |    |    |
|  | SCORE                    | POINTS |        |  |   |    |                                 |   |    |                                  |   |    |                                      |   |    |           |   |    |           |   |    |    |
| Qualification: Honours and above (NQF 8) =   | 5                        | 20     |        |  |   |    |                                 |   |    |                                  |   |    |                                      |   |    |           |   |    |           |   |    |    |
| Qualification: Degree (NQF 7) =  | 4                        | 15     |        |  |   |    |                                 |   |    |                                  |   |    |                                      |   |    |           |   |    |           |   |    |    |
| Qualification: Diploma (NQF 6) =   | 3                        | 10     |        |  |   |    |                                 |   |    |                                  |   |    |                                      |   |    |           |   |    |           |   |    |    |
| Qualification: Certificate (NQF 5) =   | 2                        | 5      |        |  |   |    |                                 |   |    |                                  |   |    |                                      |   |    |           |   |    |           |   |    |    |

|   |       |        |                   |
|---|-------|--------|-------------------|
| 3. Provide/ Demonstrate the experience of Key Staff assigned to the project:<br>FOREMAN   |       |        | 25                |
| EXPERIENCE: FOREMAN   |       |        |                   |
|   | SCORE | POINTS |                   |
| Staff experience of 10 or more years =  | 5     | 25     |                   |
| Staff experience of 8 years =   | 4     | 20     |                   |
| Staff experience of 6 years =   | 3     | 15     |                   |
| Staff experience of 4 years =   | 2     | 10     |                   |
| Staff experience of 2 years =   | 1     | 05     |                   |
| 4. Previous experience based on the number of projects of similar nature currently engaged in and/ or successfully completed over the last 7 ten years, inclusive of reference letters for each project, with contactable references (DPW - 09: Particulars of tender's Projects should be fully completed) |       |        | 30                |
|   | SCORE | POINTS |                   |
| Project value more than R5 000 000 =  | 5     | 30     |                   |
| Project value R4 000 001- R5 000 000 =  | 4     | 24     |                   |
| Project value R3 000 001 - R4 000 000=  | 3     | 18     |                   |
| Project value R2 000 001 - R3 000 000=  | 2     | 12     |                   |
| Project value R 900 000- R 2000 000 =   | 1     | 06     |                   |
|   |       |        |                   |
|   |       |        |                   |
|   |       |        |                   |
|   |       |        |                   |
|   |       |        |                   |
|   |       |        |                   |
| <b>Total</b>  |       |        | <b>100 Points</b> |

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**4. BID EVALUATION METHOD**

This bid will be evaluated according to the preferential procurement model in the PPPFA: (Tick applicable preference point scoring system)

|  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> <b>80/20</b><br>Preference points scoring system | <input type="checkbox"/> <b>90/10</b><br>Preference points scoring system | <input type="checkbox"/> <b>Either 80/20 or 90/10</b><br>Preference points scoring system |
|--|---|---|

In case where below/above R 50 000 000 is selected, the lowest acceptable tender will be used to determine the applicable preference point system.

**5. ELIGIBILITY IN RESPECT OF RISK TO THE EMPLOYER:**

**Standard risk management assessment criteria in respect of tenders received for routine projects in the engineering and construction works environments:**

Tender offers will be evaluated by an Evaluation Committee based on the technical and commercial risk criteria listed hereunder. Each criterion carries the same weight / importance and will be evaluated individually based on reports presented to the Bid Evaluation Committee by the Professional Team appointed on the project. A tender offer will be declared non-responsive and removed from any further evaluation if any one criterion is found to present an unacceptable risk to the Employer.

In order for the evaluation reports to be prepared by the Professional Team, the Tenderer is obliged to provide comprehensive information on form DPW-09 (EC). Failure to complete the said form will cause the tender to be declared non-responsive and removed from any further consideration. The Employer reserves the right to request additional information over and above that which is provided by the Tenderer on said form. The information must be provided by the Tenderer within the stipulated time as determined by the Bid Evaluation Committee, failing which the tender offer will *mutatis mutandis* be declared non-responsive.

## 5.1 Technical risks:

### Criterion 1: Experience on comparable projects during the past 7 years.

The tendering Service Provider's experience on comparable projects during the past 7 years. The number of current and previous comparable projects performed by the Tenderer as per the evaluation report prepared by the Consultant Team, based on its research and inspection of a representative sample of the Tenderer's current and previous work as reflected on form DPW-09 (EC), as well as, if necessary, of any additional work executed by the Tenderer, not reflected on form DPW-09 (EC). Failing to provide contactable references will result in the tender offer will be *mutatis mutandis* declared non-responsive.

Aspects to be regarded as "comparable" includes (but may be extended according to circumstances): size of projects (measured against monetary value or other project quantifying parameters), nature of projects (building, engineering, high/low rise, etc.), locality/area of execution (site-specific influences, knowledge of local conditions, etc.), complexity of project, projects for similar client department irrespective of end purpose of buildings/facilities created or in progress of being created and time scales of projects (normal, fast track, etc.) and stage of its/their development.

### Criterion 2: Contractual commitment and quality of performance on comparable projects during the past 7 years.

Adherence to contractual commitments and quality of performance of comparable current and previous projects performed by the Tenderer during the past 7 years as per

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the evaluation report prepared by the Consultant Team, based on its research and inspection of a representative sample of the Tenderer's current and previous work as reflected on form DPW-09 (EC), as well as, if necessary, of any additional work executed by the Tenderer, not reflected on form DPW-09 (EC). Failing to provide contactable references will result in the tender offer be *mutatis mutandis* declared non-responsive.

Aspects to be considered include, but are not limited to the following:

1. The level of progress on current projects in relation to the project programme or, if such is not available/applicable, to the contractual construction period in general;
2. The degree to which previous projects have been completed within the contractual completion periods and/or extensions thereto, and the extend of penalties imposed;
3. Project performance: time management & programming of works, timeous ordering of materials and appointment of subcontractors;
4. Financial management: payment to suppliers and cash flow problems;
5. Quality of workmanship: extent of reworks and timeous attention to remedial works;
6. Personnel resources: suitably qualified and experienced, turnover in site staff and labour force, specifically site manager and foreman;
7. Personnel management: extent of labour disputes and ability to resolving labour disputes amicably;
8. Sub-contractors: extent of turnover in subcontractors, general liaison and payment problems experienced;
9. Contract administration: contractual aspects such as complying to laws and regulations, insurances, security, submission of required documentation timeously, reaction to written contract instructions, appointments of subcontractors, etc. as can generally be expected in standard/normal conditions of contract.
10. Health & Safety: adherence to regulations and compliance, and number of transgressions & serious incidents.



11. Plant & equipment: sufficient resources on site and in time.
12. Delays: extent of causing delays, submission of claims timeously, and abuse of or exaggerated delay claims.
13. Final account: extent to which the contractor assisted in finalising the final account.

**Criterion 3: Suitably qualified and appropriately experienced human resources**

Allocation of suitably qualified and appropriately experienced human resources, both in respect of principals and/or other staff (contract manager, site agent, site foreman including other professional, technical and/or administrative) of the tendering Service Provider to the project, as proof that the tendering Service Provider will be able to react/respond appropriately to the Services required herein. The Company Organogram with CV's and certified ID's of all principals and employed workforce as well as proof of Professional Registration will be verified. Current and future workload of the tenderer in relation to capacity and capability will also be considered. The tenderer should demonstrate that he or she possesses the necessary professional and technical qualifications and -competence in relation to the scope of work and work to be undertaken.

**Criterion 4: Attendance of compulsory bid clarification meeting, if applicable**

If applicable, submission of confirmation of DPW-16.1 (PSB) attendance of compulsory bid clarification meeting or proof of attending the compulsory virtual meeting by a suitably qualified and experienced representative of the tenderer in terms of PA-04 (EC): Notice and Invitation to Tender.

**5.2 Commercial risks:**

The financial viability assessment evaluates the risk over the life of the construction period, as to whether the tenderer will be able to deliver the goods and services which are specified in the contract and / or be able to fulfil guarantees or warranties provided for in the contract in order to complete the project successfully for the amount tendered.

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Aspects to be considered include but are not limited to, the respective rates tendered, bank rating, financial capability and capacity whether the tenderer has or has access to sufficient financial resources to deliver the goods or services described in the tender documentation (including fulfilling any guarantees or warranty claims), whether the tenderer is not subject to any current or impending legal action (either formal proceedings or notification of legal action) which could impact on the financial standing of the tenderer or the delivery of the goods or services, financial report from auditors as proof of current liquidity, and company or any parent company or investor guarantee/s and financial statements.

**6. CONTRACT PARTICIPATION GOAL TARGETS AND CIDB B.U.I.L.D. PROGRAMME**

The contractor shall achieve in the performance of the contract the following Contract Participation Goals (CPGs) as described in PG-01.2 (EC): Scope of Work and PG-02.2 (EC): Pricing Assumptions and in accordance with the feasibility study, which forms part of the specifications in the CPG Section of the Specification of this contract.

|     |  |                |
|-----|--|----------------|
| (a) | Minimum 30% Mandatory Subcontracting to SMMEs in accordance with the Preferential Procurement Policy Framework Act, 2000: Preferential Procurement Regulations, 2017 as published in the Government Gazette Notice No. 40553 of 20 January 2017 – Condition of Tender.   | Not applicable |
| (b) | Minimum Targeted Local Manufacturers of Material Contract Participation Goal, in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September | Not applicable |

|     |   |                |
|-----|---|----------------|
|     | 2020 – Condition of Contract.   |                |
| (c) | Minimum Targeted Local Building Material Suppliers Contract Participation Goal in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract. | Not applicable |
| (d) | Minimum Targeted Local Labour Skills Development Contract Participation Goal in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.   | Not applicable |
| (e) | <b>cidb BUILD Programme:</b> Minimum Targeted Enterprise Development Contract Participation Goal in accordance with the cidb Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, No 36190 Government Gazette, 25 February 2013, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.                                | Not applicable |
| (f) | <b>cidb BUILD Programme:</b> Minimum Targeted Contract Skills Development Goal in accordance with the cidb Standard for Developing Skills through Infrastructure Contracts as published in the Government Gazette Notice No. 43495 of 3 July 2020, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.  | Not applicable |
| (g) | DPWI National Youth Service training and development programme (NYS) – Condition of Contract.   | Not applicable |
| (h) | Labour Intensive Works – Condition of Contract.   | Not applicable |
| (i) |   | Select         |

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|     |  |        |
|-----|--|--------|
| (j) |  | Select |
|-----|--|--------|

## 7. COLLECTION OF TENDER DOCUMENTS

- Bid documents are available for free download on e-Tender portal [www.etenders.gov.za](http://www.etenders.gov.za)
- Alternatively; Bid documents may be collected during working hours at the following address PRD Building, 26 sutherland street, 5th floor. A non-refundable bid deposit of R 200,00 is payable (cash only) on collection of the bid documents.

## 8. SITE INSPECTION MEETING

A pre-tender site inspection meeting will be held in respect of this tender.  
Attendance of said pre- tender site inspection meeting is compulsory

The particulars for said pre- tender site inspection meeting or virtual bid clarification / site inspection meeting, are:

|                              |                  |                       |          |
|------------------------------|------------------|-----------------------|----------|
| <b>Venue:</b>                | Dordrecht Prison |                       |          |
| <b>Virtual meeting link:</b> | N/A              |                       |          |
| <b>Date:</b>                 | 31 January 2023  | <b>Starting time:</b> | 12:00 pm |

## 9. ENQUIRIES

Enquiries related to tender documents may be addressed to:

|                              |                         |                      |            |
|------------------------------|-------------------------|----------------------|------------|
| <b>DPWI Project Manager:</b> | Asive Lomntu            | <b>Telephone no:</b> | 0475027030 |
| <b>Cellular phone no:</b>    | 066 335 5405            | <b>Fax no:</b>       |            |
| <b>E-mail:</b>               | asive.lomntu@dpw.gov.za |                      |            |

## 10. DEPOSIT / RETURN OF TENDER DOCUMENTS

Telegraphic, telephonic, telex, facsimile, electronic and / or late tenders will not be accepted.

Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the Tender Data.

All tenders must be completed in non-erasable ink and submitted on the official forms – (forms not to be re-typed).

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|  |           |   |
|--|-----------|---|
| <p><b>Tender documents may be posted to:</b></p> <p>The Director-General<br/>Department of Public Works and Infrastructure<br/>Private Bag X 5007<br/>Mthatha<br/>5099</p> <p><b>Attention:</b><br/><b>Procurement section:</b> Room 5th Floor</p> | <b>OR</b> | <p><b>Deposited in the tender box at:</b></p> <p>PRD Building<br/>26 Sutherland street<br/>insert street name<br/>5th Floor</p> |
|--|-----------|---|

## 11. COMPILED BY:

|                         |           |      |
|-------------------------|-----------|------|
| Ms A. Lomntu            |           |      |
| Name of Project Manager | Signature | Date |

## PA 32: INVITATION TO BID PART A

**YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF DEPARTMENT/ PUBLIC ENTITY)**

|             |            |               |                  |               |       |
|-------------|------------|---------------|------------------|---------------|-------|
| BID NUMBER: | MTH59/2022 | CLOSING DATE: | 10 February 2023 | CLOSING TIME: | 11:00 |
|-------------|------------|---------------|------------------|---------------|-------|

|             |  |
|-------------|--|
| DESCRIPTION | DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT |
|-------------|--|

**THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (DPW04.1 GS or DPW04.2 GS).**

BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)

|  |  |
|--|--|
|  |  |
|--|--|

**OR POSTED TO:**

|  |  |
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|  |  |
|--|--|

**SUPPLIER INFORMATION**

|                |  |
|----------------|--|
| NAME OF BIDDER |  |
|----------------|--|

|                |  |
|----------------|--|
| POSTAL ADDRESS |  |
|----------------|--|

|                |  |
|----------------|--|
| STREET ADDRESS |  |
|----------------|--|

|                  |      |  |        |  |
|------------------|------|--|--------|--|
| TELEPHONE NUMBER | CODE |  | NUMBER |  |
|------------------|------|--|--------|--|

|                  |  |
|------------------|--|
| CELLPHONE NUMBER |  |
|------------------|--|

|                  |      |  |        |  |
|------------------|------|--|--------|--|
| FACSIMILE NUMBER | CODE |  | NUMBER |  |
|------------------|------|--|--------|--|

|                |  |
|----------------|--|
| E-MAIL ADDRESS |  |
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|                         |  |
|-------------------------|--|
| VAT REGISTRATION NUMBER |  |
|-------------------------|--|

|  |          |  |           |         |  |
|--|----------|--|-----------|---------|--|
|  | TCS PIN: |  | <b>OR</b> | CSD No: |  |
|--|----------|--|-----------|---------|--|

|  |                              |                             |                                     |                              |                             |
|--|------------------------------|-----------------------------|-------------------------------------|------------------------------|-----------------------------|
| B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE [TICK APPLICABLE BOX] | <input type="checkbox"/> Yes | <input type="checkbox"/> No | B-BBEE STATUS LEVEL SWORN AFFIDAVIT | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
|--|------------------------------|-----------------------------|-------------------------------------|------------------------------|-----------------------------|

|  |  |
|--|--|
| IF YES, WHO WAS THE CERTIFICATE ISSUED BY? |  |
|--|--|

|  |                          |  |
|--|--------------------------|--|
| AN ACCOUNTING OFFICER AS CONTEMPLATED IN THE CLOSE CORPORATION ACT (CCA) AND NAME THE APPLICABLE IN THE TICK BOX | <input type="checkbox"/> | AN ACCOUNTING OFFICER AS CONTEMPLATED IN THE CLOSE CORPORATION ACT (CCA) |
|--|--------------------------|--|

|  |                          |  |
|--|--------------------------|--|
|  | <input type="checkbox"/> | A VERIFICATION AGENCY ACCREDITED BY THE SOUTH AFRICAN ACCREDITATION SYSTEM (SANAS) |
|--|--------------------------|--|

|  |                          |                                      |
|--|--------------------------|--------------------------------------|
|  | <input type="checkbox"/> | <b>A REGISTERED AUDITOR DETAILS:</b> |
|--|--------------------------|--------------------------------------|

|  |  |       |
|--|--|-------|
|  |  | NAME: |
|--|--|-------|

|  |  |                      |
|--|--|----------------------|
|  |  | REGISTRATION NUMBER: |
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|  |  |                   |
|--|--|-------------------|
|  |  | BUSINESS ADDRESS: |
|--|--|-------------------|

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|  | TELEPHONE NUMBER:..... |
|  | E-MAIL ADDRESS:.....   |

**[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/SWORN AFFIDAVIT(FOR EMEs& QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]**

|   |   |
|---|---|
| ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?<br><input type="checkbox"/> Yes <input type="checkbox"/> No<br>[IF YES ENCLOSE PROOF] | ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?<br><input type="checkbox"/> Yes <input type="checkbox"/> No<br>[IF YES ANSWER PART B:3 BELOW ] |
| SIGNATURE OF BIDDER<br>.....  | DATE  |
| CAPACITY UNDER WHICH THIS BID IS SIGNED (Attach proof of authority to sign this bid; e.g. resolution of directors, etc.)  |   |

|  |   |  |
|--|---|--|
| TOTAL NUMBER OF ITEMS OFFERED                          | TOTAL BID PRICE ('ALL APPLICABLE TAXES) |  |
| <b>BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:</b> |   | <b>TECHNICAL INFORMATION MAY BE DIRECTED TO:</b> |
| DEPARTMENT/ PUBLIC ENTITY                              |   | CONTACT PERSON                                   |
| CONTACT PERSON   |   | TELEPHONE NUMBER                                 |
| TELEPHONE NUMBER                                       |   | FACSIMILE NUMBER                                 |
| FACSIMILE NUMBER                                       |   | E-MAIL ADDRESS                                   |
| E-MAIL ADDRESS   |   |  |

## PART B TERMS AND CONDITIONS FOR BIDDING

- 1. BID SUBMISSION:**
  - 1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
  - 1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED-(NOT TO BE RE-TYPED) OR ONLINE
  - 1.3. BIDDERS MUST REGISTER ON THE CENTRAL SUPPLIER DATABASE (CSD) TO UPLOAD MANDATORY INFORMATION NAMEDLY: ( BUSINESS REGISTRATION/ DIRECTORSHIP/ MEMBERSHIP/IDENTITY NUMBERS; TAX COMPLIANCE STATUS; AND BANKING INFORMATION FOR VERIFICATION PURPOSES). B-BBEE CERTIFICATE OR SWORN AFFIDAVIT FOR B-BBEE MUST BE SUBMITTED TO BIDDING INSTITUTION.
  - 1.4. WHERE A BIDDER IS NOT REGISTERED ON THE CSD, MANDATORY INFORMATION NAMEDLY: (BUSINESS REGISTRATION/ DIRECTORSHIP/ MEMBERSHIP/IDENTITY NUMBERS; TAX COMPLIANCE STATUS MAY NOT BE SUBMITTED WITH THE BID DOCUMENTATION. B-BBEE CERTIFICATE OR SWORN AFFIDAVIT FOR B-BBEE MUST BE SUBMITTED TO BIDDING INSTITUTION.
  - 1.5. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER LEGISLATION OR SPECIAL CONDITIONS OF CONTRACT.
- 2. TAX COMPLIANCE REQUIREMENTS**
  - 2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
  - 2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VIEW THE TAXPAYER'S PROFILE AND TAX STATUS.
  - 2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) OR PIN MAY ALSO BE MADE VIA E-FILING. IN ORDER TO USE THIS PROVISION, TAXPAYERS WILL NEED TO REGISTER WITH SARS AS E-FILERS THROUGH THE WEBSITE WWW.SARS.GOV.ZA.
  - 2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS TOGETHER WITH THE BID.
  - 2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A

SEPARATE PROOF OF TCS / PIN / CSD NUMBER.

2.6 WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.

### 3. QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS

3.1. IS THE BIDDER A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?  YES  NO

3.2. DOES THE BIDDER HAVE A BRANCH IN THE RSA?  YES  NO

3.3. DOES THE BIDDER HAVE A PERMANENT ESTABLISHMENT IN THE RSA?  YES  NO

3.4. DOES THE BIDDER HAVE ANY SOURCE OF INCOME IN THE RSA?  YES  NO

**IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN, IT IS NOT A REQUIREMENT TO OBTAIN A TAX COMPLIANCE STATUS / TAX COMPLIANCE SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 ABOVE.**

**NB: FAILURE TO PROVIDE ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID. AN ORIGINAL OR CERTIFIED COPY OF THE B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE.**

**Note Well:**

- a) In respect of non VAT vendors the bidders may not increase the bid price under Section 67(1) of the Value Added Tax Act of 1991 where the relevant transaction would become subject to VAT by reason of the turnover threshold being exceeded and the bidder becomes liable for VAT.
- b) **All delivery costs must be included in the bid price, for delivery at the prescribed destination.**
- c) The price that appears on this form is the one that will be considered for acceptance as **a firm and final offer**.
- d) The grand total in the pricing schedule(s), inclusive of VAT, attached to the bid offer must correlate and be transferred to this form (PA32).
- e) Where there are inconsistencies between the grand total price offer in the pricing schedule(s) and the PA32 price offer, the price offer on the PA32 shall prevail and deemed to be firm and final. No further correspondence shall be entered into in this regard.

<sup>1</sup> All applicable taxes” includes value- added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies



## **T.1.2: Tender Data**

## DPW-03 (EC): TENDER DATA

|                       |  |
|-----------------------|--|
| <b>Project title:</b> | <b><i>DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT</i></b> |
| <b>Reference no:</b>  |  |

|                               |              |                         |                             |
|-------------------------------|--------------|-------------------------|-----------------------------|
| <b>Tender / Quotation no:</b> | MTH59/2022   | <b>Closing date:</b>    | 10 February 2023            |
| <b>Closing time:</b>          | <b>11H00</b> | <b>Validity period:</b> | 12 Weeks (84 Calender days) |

|                       |   |
|-----------------------|---|
| <b>Clause number:</b> |   |
|                       | <p>The conditions of tender are the Standard Conditions of Tender as contained in Annex C of the CIDB Standard for Uniformity in Construction Procurement as per Government Notice No. 423 published in Government Gazette No. 42622 of 8 August 2019 and as amended from time to time. (see <a href="http://www.cidb.org.za">www.cidb.org.za</a>).</p> <p>The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the Standard Conditions of Tender.</p> <p>Each item of data given below is cross-referenced to the clause marked "C" in the above mentioned Standard Conditions of Tender.</p>   |
| <b>C.1.1</b>          | The employer is the Government of the Republic of South Africa in its Department of Public Works and Infrastructure.  |
| <b>C.1.2</b>          | <p>For this contract the three volume approach is adopted.</p> <p>This procurement document has been formatted and compiled under the headings as contained in the CIDB's "Standard for Uniformity in Construction Procurement."</p> <p>The three volume procurement document issued by the employer comprises the following:</p> <p>Volume 1: Tendering procedures<br/>T1.1 - Notice and invitation to tender (PA-04 EC)<br/>T1.2 - Tender data (DPW-03 EC)</p> <p>Volume 2: Returnable documents<br/>T2.1 - List of returnable documents (PA-09 EC)<br/>C1.1 - Form of offer and acceptance (DPW-07 EC)<br/>C1.2 – Contract Data<br/>T2.2 - Returnable schedules</p> <p>Volume 3: Contract<br/>Part C1: Agreement and contract data<br/>C1.2 - Contract data (Part 1: Data provided by employer) (DPW-04 EC or DPW-05 EC)<br/>C1.3 - Form of guarantee (DPW-10.1 EC / DPW-10.3EC or DPW-10.2 EC/DPW-10.4 EC)</p> <p>Part C2: Pricing data<br/>C2.1 - Pricing Assumptions (PG-02.2 EC or PG-02.1EC)<br/>C2.2 - Bills of Quantities / Lump sum document (if not a returnable document)</p> <p>Part C3: Scope of work<br/>C3 - Scope of work (PG-01.2 EC or PG-01.1EC)</p> <p>Part C4: Site information<br/>C4 - Site information (PG-03.2 EC or PG03.1EC)</p> |

Tender no: MTH59/2022

|                 |   |   |
|-----------------|---|---|
| C.1.4           | The Employer's agent is:  |   |
|                 | Name:   | <b>Ms A Lomntu</b>                      |
|                 | Capacity:   | Departmental Project Manager            |
|                 | Address:  | <b>PRD Building , Sutherland street</b> |
|                 | Tel:  | <b>0475027030</b>                       |
|                 | Fax:  | <b>N/A</b>                              |
|                 | E-mail:   | <b>asive.lomntu@dpw.gov.za</b>          |
| C.2.1<br>C.3.11 | <p><b>A. <u>ELIGIBILITY IN RESPECT OF CIDB REGISTRATION:</u></b></p> <p>The following tenderers who are registered with the CIDB, or are *capable of being so registered prior to the evaluation of submissions, are eligible to have their tenders evaluated (* tenderers who are capable of being so registered, or who have applied for registration but have not yet received confirmation of such registration, must provide, <u>with this tender</u>, acceptable documentary proof thereof):</p> <p>a) contractors who have a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25 (7A) of the Construction Industry Development Regulations, for a <b>4EB</b> or select tender value rangeEP** class of construction work; and</p> <p>b) contractors registered as potentially emerging enterprises with the CIDB who are registered in one contractor grading designation lower than that required in terms of a) above</p> <p>Joint ventures are eligible to submit tenders provided that:</p> <ol style="list-style-type: none"> <li>every member of the joint venture is registered with the CIDB;</li> <li>the lead partner has a contractor grading designation in the <b>select tender value rangeselect class of construction works</b> or <b>select tender value rangeselect class of construction works**</b> class of construction work; and</li> <li>the combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25 (7A) of the Construction Industry Development Regulations for a <b>select tender value rangeselect class of construction works</b> or <b>select tender value rangeselect class of construction works**</b> class of construction work</li> </ol> <p>** Delete "or select tender value range select class of construction works" where only one class of construction works is applicable</p> <p>A contract will be entered into with a tenderer who has in his employ management and supervisory staff satisfying the requirements of the scope of work for labour intensive competencies for supervisory and management staff. - Not applicable</p> |   |

Tender no: MTH59/2022

|   |  |
|---|--|
| <p><b>B. <u>INDICATE THE FUNCTIONALITY WEIGHTING APPLICABLE TO THIS BID:</u></b></p> <p><b>Note:</b> All bids involving the acquisition of engineering and construction works from cidb</p> |  |
|---|--|

Grade 4 and above are subjected to functionality.

**Note:** Functionality will only be applied as a prequalification criterion. Such criteria are used to establish minimum requirements where after bids will be evaluated solely on the basis of price and preference.

| <b>Functionality Criteria</b>   | <b>Weighting Factor</b> |               |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
|---|-------------------------|---------------|---------------|---|---|----|--|---|----|--|---|----|--|---|----|--|---|----|----|
| <b>1. Provision of Bank Rating Certificate with a bank stamp</b><br><br><table border="0"> <thead> <tr> <th></th> <th><b>SCORE</b></th> <th><b>POINTS</b></th> </tr> </thead> <tbody> <tr> <td>Grade A =</td> <td>5</td> <td>25</td> </tr> <tr> <td>Grade B =</td> <td>4</td> <td>20</td> </tr> <tr> <td>Grade C =</td> <td>3</td> <td>15</td> </tr> <tr> <td>Grade D =</td> <td>2</td> <td>10</td> </tr> <tr> <td>Grade E =</td> <td>1</td> <td>05</td> </tr> </tbody> </table> Failure to provide/submit a bank rating certificate, the bidder will not earn points.  |                         | <b>SCORE</b>  | <b>POINTS</b> | Grade A =                                 | 5 | 25 | Grade B =                              | 4 | 20 | Grade C =                              | 3 | 15 | Grade D =                              | 2 | 10 | Grade E =                              | 1 | 05 | 25 |
|   | <b>SCORE</b>            | <b>POINTS</b> |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| Grade A =   | 5                       | 25            |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| Grade B =   | 4                       | 20            |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| Grade C =   | 3                       | 15            |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| Grade D =   | 2                       | 10            |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| Grade E =   | 1                       | 05            |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| <b>2. Provide detailed Company Organogram, CVs and qualifications( Built Environment) of the Key Staff assigned to the project. (Key Staff examples: CONTRACTS MANAGER/ SITE AGENT)</b><br><br><table border="0"> <thead> <tr> <th></th> <th><b>SCORE</b></th> <th><b>POINTS</b></th> </tr> </thead> <tbody> <tr> <td>Qualification: Honours and above (NQF 8)=</td> <td>4</td> <td>20</td> </tr> <tr> <td>Qualification: Degree (NQF 7) =</td> <td>3</td> <td>15</td> </tr> <tr> <td>Qualification: Diploma (NQF 6) =</td> <td>2</td> <td>10</td> </tr> <tr> <td>Qualification: Certificate (NQF 5) =</td> <td>1</td> <td>5</td> </tr> </tbody> </table>   |                         | <b>SCORE</b>  | <b>POINTS</b> | Qualification: Honours and above (NQF 8)= | 4 | 20 | Qualification: Degree (NQF 7) =        | 3 | 15 | Qualification: Diploma (NQF 6) =       | 2 | 10 | Qualification: Certificate (NQF 5) =   | 1 | 5  | 20                                     |   |    |    |
|   | <b>SCORE</b>            | <b>POINTS</b> |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| Qualification: Honours and above (NQF 8)=   | 4                       | 20            |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| Qualification: Degree (NQF 7) =   | 3                       | 15            |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| Qualification: Diploma (NQF 6) =  | 2                       | 10            |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| Qualification: Certificate (NQF 5) =  | 1                       | 5             |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| <b>3. Provide/ Demonstrate the experience of Key Staff assigned to the project: FOREMAN</b><br><br><b>EXPERIENCE: FOREMAN</b><br><br><table border="0"> <thead> <tr> <th></th> <th><b>SCORE</b></th> <th><b>POINTS</b></th> </tr> </thead> <tbody> <tr> <td>Staff experience of 10 or more years =</td> <td>5</td> <td>25</td> </tr> <tr> <td>Staff experience of 8 years =</td> <td>4</td> <td>20</td> </tr> <tr> <td>Staff experience of 6 years =</td> <td>3</td> <td>15</td> </tr> <tr> <td>Staff experience of 4 years =</td> <td>2</td> <td>10</td> </tr> <tr> <td>Staff experience of 2 years =</td> <td>1</td> <td>05</td> </tr> </tbody> </table>  |                         | <b>SCORE</b>  | <b>POINTS</b> | Staff experience of 10 or more years =    | 5 | 25 | Staff experience of 8 years =          | 4 | 20 | Staff experience of 6 years =          | 3 | 15 | Staff experience of 4 years =          | 2 | 10 | Staff experience of 2 years =          | 1 | 05 | 25 |
|   | <b>SCORE</b>            | <b>POINTS</b> |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| Staff experience of 10 or more years =  | 5                       | 25            |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| Staff experience of 8 years =   | 4                       | 20            |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| Staff experience of 6 years =   | 3                       | 15            |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| Staff experience of 4 years =   | 2                       | 10            |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| Staff experience of 2 years =   | 1                       | 05            |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| <b>4. Previous experience based on the number of projects of similar nature currently engaged in and/ or successfully completed over the last 7 years. Inclusive of reference letters for each project, with contactable references (DPW - 09: Particulars of tender's Projects should be fully completed)</b><br><br><table border="0"> <thead> <tr> <th></th> <th><b>SCORE</b></th> <th><b>POINTS</b></th> </tr> </thead> <tbody> <tr> <td>Project value more than R5 000 000 =</td> <td>5</td> <td>30</td> </tr> <tr> <td>Project value R4 000 001- R5 000 000 =</td> <td>4</td> <td>24</td> </tr> <tr> <td>Project value R3 000 001 - R4 000 000=</td> <td>3</td> <td>18</td> </tr> <tr> <td>Project value R2 500 001 - R3 000 000=</td> <td>2</td> <td>12</td> </tr> <tr> <td>Project value R 900 000 - R 2000 000 =</td> <td>1</td> <td>06</td> </tr> </tbody> </table> |                         | <b>SCORE</b>  | <b>POINTS</b> | Project value more than R5 000 000 =      | 5 | 30 | Project value R4 000 001- R5 000 000 = | 4 | 24 | Project value R3 000 001 - R4 000 000= | 3 | 18 | Project value R2 500 001 - R3 000 000= | 2 | 12 | Project value R 900 000 - R 2000 000 = | 1 | 06 | 30 |
|   | <b>SCORE</b>            | <b>POINTS</b> |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| Project value more than R5 000 000 =  | 5                       | 30            |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| Project value R4 000 001- R5 000 000 =  | 4                       | 24            |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| Project value R3 000 001 - R4 000 000=  | 3                       | 18            |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| Project value R2 500 001 - R3 000 000=  | 2                       | 12            |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| Project value R 900 000 - R 2000 000 =  | 1                       | 06            |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
|   |                         |               |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
|   |                         |               |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
|   |                         |               |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
|   |                         |               |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
|   |                         |               |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
|   |                         |               |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
|   |                         |               |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| <b>Total</b>  | <b>100 Points</b>       |               |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| <i>(Weightings will be multiplied by the scores allocated during the evaluation process to arrive at the total functionality points)</i>  |                         |               |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |
| <b>Minimum functionality score to qualify for further evaluation:</b>   | <b>65</b>               |               |               |   |   |    |  |   |    |  |   |    |  |   |    |  |   |    |    |

(Total minimum qualifying score for functionality is 50 Percent).

**C ELIGIBILITY IN RESPECT OF RISK TO EMPLOYER:**

**Standard risk management assessment criteria in respect of tenders received for routine projects in the engineering and construction works environments:**

Tender offers will be evaluated by an Evaluation Committee based on the technical and commercial risk criteria listed hereunder. Each criterion carries the same weight / importance and will be evaluated individually based on reports presented to the Bid Evaluation Committee by the Professional Team appointed on the project. A tender offer will be declared non-responsive and removed from any further evaluation if any one criterion is found to present an unacceptable risk to the Employer.

In order for the evaluation reports to be prepared by the Professional Team, the Tenderer is obliged to provide comprehensive information on form DPW-09 (EC). Failure to complete the said form will cause the tender to be declared non-responsive and removed from any further consideration. The Employer reserves the right to request additional information over and above that which is provided by the Tenderer on said form. The information must be provided by the Tenderer within the stipulated time as determined by the Bid Evaluation Committee, failing which the tender offer will *mutatis mutandis* be declared non-responsive.

**C.1 Technical risks:**

**Criterion 1: Experience on comparable projects during the past 5 years.**

The tendering Service Provider's experience on comparable projects during the past 5 years. The number of current and previous comparable projects performed by the Tenderer as per the evaluation report prepared by the Consultant Team, based on its research and inspection of a representative sample of the Tenderer's current and previous work as reflected on form DPW-09 (EC), as well as, if necessary, of any additional work executed by the Tenderer, not reflected on form DPW-09 (EC). Failing to provide contactable references will result in the tender offer will be *mutatis mutandis* declared non-responsive.

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Aspects to be regarded as "comparable" includes (but may be extended according to circumstances): size of projects (measured against monetary value or other project quantifying parameters), nature of projects (building, engineering, high/low rise, etc.), locality/area of execution (site-specific influences, knowledge of local conditions, etc.), complexity of project, projects for similar client department irrespective of end purpose of buildings/facilities created or in progress of being created and time scales of projects (normal, fast track, etc.) and stage of its/their development.

**Criterion 2: Contractual commitment and quality of performance on comparable projects during the past 5 years.**

Adherence to contractual commitments and quality of performance of comparable current and previous projects performed by the Tenderer as per the evaluation report prepared by the Consultant Team, based on its research and inspection of a representative sample of the Tenderer's current and previous work as reflected on form DPW-09 (EC), as well as, if necessary, of any additional work executed by the Tenderer, not reflected on form DPW-09 (EC). Failing to provide contactable references will result in the tender offer be *mutatis mutandis* declared non-responsive.

Aspects to be considered include, but are not limited to the following:

1. The level of progress on current projects in relation to the project programme or, if such is not available/applicable, to the contractual construction period in general;
2. The degree to which previous projects have been completed within the contractual completion periods and/or extensions thereto, and the extend of penalties imposed;
3. Project performance: time management & programming of works, timeous ordering of materials and appointment of subcontractors;
4. Financial management: payment to suppliers and cash flow problems;

5. Quality of workmanship: extent of reworks and timeous attention to remedial works;
6. Personnel resources: suitably qualified and experienced, turnover in site staff and labour force, specifically site manager and foreman;
7. Personnel management: extent of labour disputes and ability to resolving labour disputes amicably;
8. Sub-contractors: extent of turnover in subcontractors, general liaison and payment problems experienced;
9. Contract administration: contractual aspects such as complying to laws and regulations, insurances, security, submission of required documentation timeously, reaction to written contract instructions, appointments of subcontractors, etc. as can generally be expected in standard/normal conditions of contract.
10. Health & Safety: adherence to regulations and compliance, and number of transgressions & serious incidents.
11. Plant & equipment: sufficient resources on site and in time.
12. Delays: extent of causing delays, submission of claims timeously, and abuse of or exaggerated delay claims.
13. Final account: extent to which the contractor assisted in finalising the final account.

**Criterion 3: Suitably qualified and appropriately experienced human resources**

Allocation of suitably qualified and appropriately experienced human resources, both in respect of principals and/or other staff (contract manager, site agent, site foreman including other professional, technical and/or administrative) of the tendering Service Provider to the project, as proof that the tendering Service Provider will be able to react/respond appropriately to the Services required herein. The Company Organogram with CV's and certified ID's of all principals and employed workforce as well as proof of Professional Registration will be verified. Current and future workload of the tenderer in relation to capacity and capability will also be considered. The tenderer should demonstrate that he or she possesses the necessary professional and technical qualifications and - competence in relation to the scope of work and work to be undertaken.

**Criterion 4: Attendance of compulsory bid clarification meeting, if applicable**

If applicable, submission of confirmation of DPW-16.1 (PSB) attendance of compulsory bid clarification meeting or proof of attending the compulsory virtual meeting by a suitably qualified and experienced representative of the tenderer in terms of PA-04 (EC): Notice and Invitation to Tender.

**Tender no: MTH59/2022**

**C.2 Commercial risks:**

The financial viability assessment evaluates the risk over the life of the construction period, as to whether the tenderer will be able to deliver the goods and services which are specified in the contract and / or be able to fulfil guarantees or warranties provided for in the contract in order to complete the project successfully for the amount tendered.

Aspects to be considered include but are not limited to, the respective rates tendered, bank rating, financial capability and capacity whether the tenderer has or has access to sufficient financial resources to deliver the goods or services described in the tender documentation (including fulfilling any guarantees or warranty claims), whether the tenderer is not subject to any current or impending legal action (either formal proceedings or notification of legal action) which could impact on the financial standing of the tenderer or the delivery of the goods or services, financial report from auditors as proof of current liquidity, and company or any parent company or investor guarantee/s and financial statements.

**C.2.7** For particulars regarding a pre-tender site inspection meeting, see Notice and Invitation to Tender T1.1

**C.2.12** If a tenderer wishes to submit an alternative tender offer, the only criteria permitted for such alternative tender offer is that it demonstrably satisfies the Employer's standards and requirements. A tenderer may submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted. Provided that the tenderer's main tender offer is according to specification and would under normal circumstances be recommended for acceptance, his alternative tender offer may also be considered for the purpose of the award of the contract.

Calculations, drawings and all other pertinent technical information and characteristics as well as modified or proposed Pricing Data must be submitted with the alternative tender offer to enable the Employer to

|                                 |  |
|---------------------------------|--|
|                                 | <p>evaluate the efficacy of the alternative and its principal elements, to take a view on the degree to which the alternative complies with the Employer's standards and requirements and to evaluate the acceptability of the pricing proposals. Calculations must be set out in a clear and logical sequence and must clearly reflect all design assumptions. Pricing Data must reflect all assumptions in the development of the pricing proposal.</p> <p>Acceptance of an alternative tender offer will mean acceptance in principle of the offer. It will be an obligation of the contract for the tenderer, in the event that the alternative is accepted, to accept full responsibility and liability that the alternative offer complies in all respects with the Employer's standards and requirements.</p> <p>The modified Pricing Data must include an amount equal to 5% of the amount tendered for the alternative offer to cover the Employer's costs of confirming the acceptability of the detailed design before it is constructed.</p> <p>Alternative tender offer permitted: <span style="float: right;">Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></span></p> |
| <b>C.2.13.2</b>                 | The list of Returnable Documents identifies which of the documents a tenderer must complete when submitting a tender offer. The tenderer must submit his tender offer by completing the Returnable Documents, signing the "Offer" section in the "Form of Offer and Acceptance" and delivering the Returnable Documents back to the Department.  |
| <b>C.2.13.5</b>                 | The Employer's address for delivery of tender offers and identification details to be shown on each tender offer package are as per Notice and Invitation to Tender T1.1.  |
| <b>C.2.13.6</b><br><b>C.3.5</b> | A two-envelope procedure will not be followed.   |
| <b>C.2.15</b>                   | The closing time for submission of tender offers is as per Notice and Invitation to Tender T1.1.   |
| <b>C.2.16</b>                   | The tender offer validity period is as per Notice and Invitation to Tender T1.1.   |
| <b>C2.16.3</b>                  | Omit the wording of the last sentence for those projects which are subject to CPAP   |
| <b>C.2.18</b>                   | <p>The tenderer will be required to submit his fully priced Bills of Quantities / Lump Sum Document (complete document inclusive of all parts):</p> <p><input checked="" type="checkbox"/> Together with his tender;<br/>or<br/><input type="checkbox"/> The tenderer shall submit his fully priced and completed sectional summary- and final summary pages with the tender and thereafter submit the fully completed Bills of Quantities within fourteen (14) calendar days of the date requested to do so prior to the award of the contract.</p>   |

**Tender no: MTH59/2022**

|                                  |  |
|----------------------------------|--|
| <b>C.2.19</b>                    | Access shall be provided for inspections, tests and analysis as may be required by the Employer.   |
| <b>C.3.4.1</b><br><b>C.3.4.2</b> | The location for opening of the tender offers, immediately after the closing time thereof shall be at:<br><b>PRD Building, 26 Sutherland street mthatha</b>  |
| <b>C.3.8</b>                     | The words "responsive tender" and "acceptable tender" shall be construed to have the same meaning.   |
| <b>C.3.9.3</b>                   | Omit the wording and replace with the following:<br>"Notify the tenderer of all errors, omissions and/or rate imbalances that are identified in the tender offer and request the tenderer to, within a stipulated time, accept the total of prices as corrected in accordance with C.3.9.4."   |
| <b>C.3.9.4</b>                   | Omit the wording of the first sentence and replace with the following:<br>"In cases where tender offers contain errors, omissions and/or rate imbalances, these are to be corrected as follows:"   |
| <b>C.3.9.4</b>                   | Add sub paragraph c) to C.3.9.4, as follows:<br>"c) If the tenderer does not accept the corrected tender offer, or cannot reach consensus with the Employer on a corrected tender offer, the tender is to be classified as not acceptable/non responsive and removed from further contention." |
| <b>C.3.11.1</b>                  | The procedure for the evaluation of responsive tenders is Method 2: Financial Offer and Preference.  |
| <b>C.3.13</b>                    | Add the following to sub paragraph a), as follows:   |

|               |  |
|---------------|--|
|               | The tenderer or any of its directors is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act, 2004 (Act No. 12 of 2004) as a person prohibited from doing business with the public sector; |
| <b>C.3.17</b> | Provide to the successful tenderer one copy of the signed contract document.   |





public works  
& infrastructure

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Department:  
Public Works and Infrastructure  
**REPUBLIC OF SOUTH AFRICA**

**REFERENCE NO.**

**TENDER NO: MTH59/2022**

**DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL  
SUPPLY INSTALLATION AND EQUIPMENT  
(WCS 044256)**

**VOLUME 2  
RETURNABLE DOCUMENTS**

**ISSUED BY:  
DEPARTMENT OF PUBLIC WORKS  
PRD II BUILDING  
SUTHERLAND STREET  
MTHATHA  
5100  
25270**

**CONTACT PERSON:  
MS. ASIVE LOMNTU  
TEL: (047) 502 7030**

**NAME OF FIRM: .....**

*RETURNABLE DOCUMENT*

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DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE  
DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT  
TENDER NO. MTH59/2022

## **T.2.1 List of Returnable Documents**

## PA-09 (EC): LIST OF RETURNABLE DOCUMENTS

|                               |  |                      |        |
|-------------------------------|--|----------------------|--------|
| <b>Project title:</b>         | <b><i>DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT</i></b> |                      |        |
| <b>Tender / Quotation no:</b> | MTH59/2022   | <b>Reference no:</b> | 044256 |
| <b>Receipt Number:</b>        |  |                      |        |

### 1. RETURNABLE DOCUMENTS REQUIRED FOR TENDER EVALUATION PURPOSES

**Note:** Failure to submit the applicable documents will result in the tender offer being disqualified from further consideration.

| <b>Tender document name</b>  | <b>Number of pages issued</b> | <b>Returnable document</b> |
|--|-------------------------------|----------------------------|
| Form of Offer and Acceptance (DPW-07 EC)   | 4 Pages                       | Yes                        |
| Submission of Bidder's disclosure (PA-11)  | 3 Pages                       | Yes                        |
| Resolution of Board of Directors (PA-15.1) <i>(if applicable)</i>  | 1 Page                        | Yes                        |
| Resolution of Board of Directors to enter into Consortia or JV's (PA-15.2) <i>(if applicable)</i>  | 2 Pages                       | Yes                        |
| Special Resolution of Consortia or JV's (PA-15.3) <i>(if applicable)</i>   | 3 Pages                       | Yes                        |
| Preference points claim form in terms of the Preferential Procurement Regulations 2017 (PA – 16.1)   | 5 Pages                       | Yes                        |
| Declaration Certificate for Local Production and Content for designated sectors (PA – 36 and Annexure/s C)   |                               | Yes                        |
| Fully completed Declaration of Designated Groups for Preferential Procurement (PA 40)  | 2 Pages                       | Yes                        |
| Registration on National Treasury's Central Supplier Database (CSD).   | -                             | Yes                        |
| Particulars of Tenderer's Projects (DPW-09 EC)   | 2 Pages                       | Yes                        |
| Site Inspection Meeting Certificate (DPW-16 EC) <i>(if applicable)</i> .   | 1 Page                        |                            |
| Record of attending compulsory virtual bid clarification / site inspection meeting <i>(if applicable)</i> .  | 1 Page                        |                            |
| Record of Addenda to tender documents (DPW-21 EC)  | 1 Page                        | Yes                        |
| Proof of 30% Subcontracting participation and related documents in terms of the Preferential Procurement Regulations 2017 <i>(if applicable)</i> . |                               |                            |
|  |                               |                            |
|  |                               |                            |
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|  |                               |                            |
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|  |                               |                            |
|  |                               |                            |

\* In compliance with the requirements of the cidb SFU Annexure G

Tender / Quotation no: **MTH59/2022 MTH59/2022**

**2. ADDITIONAL RETURNABLE DOCUMENTS REQUIRED FOR TENDER EVALUATION PURPOSES**

**Note:** Failure to submit the applicable documents will result in the Tenderer having to submit same upon request within a stipulated time and if not complied with, will result in the tender offer being disqualified from further consideration. [See also C.2.18 of the Standard Conditions of Tender]

| Tender document name   | Number of pages issued | Returnable document |
|--|------------------------|---------------------|
| Any <u>additional</u> information required to complete a risk assessment <i>(if applicable)</i>  | -                      | Yes                 |
| Any correction to be initialled by the person authorised to sign the tender documentation as per PA 15.1 or PA 15.2 resolution of board/s of directors / or PA15.3 Special Resolution of Consortia or JV's .                 |                        |                     |
| Submission of applicable (PA-15.1, PA-15.2, PA-15.3): Resolution by the legal entity, or consortium / joint venture, authorising a dedicated person(s) to sign documents on behalf of the firm / consortium / joint venture. |                        |                     |
|  |                        |                     |
|  |                        |                     |
|  |                        |                     |
|  |                        |                     |
|  |                        |                     |

**3. RETURNABLE DOCUMENTS THAT WILL BE INCORPORATED INTO THE CONTRACT**

**Note:** Failure to submit the applicable documents will result in the Tenderer having to submit same upon request within a stipulated time and if not complied with, will result in the tender offer being disqualified from further consideration. [See also C.2.18 of the Standard Conditions of Tender]

| Tender document name  | Number of pages issued | Returnable document |
|---|------------------------|---------------------|
| Schedule of proposed sub-contractors (DPW-15 EC) <i>(if applicable)</i>                         | 1 Page                 | Yes                 |
| Particulars of Electrical Contractor (DPW-22 EC) <i>(if applicable)</i>                         | 1 Page                 | Yes                 |
| Mechanical / Electrical / Security Work material and equipment schedules <i>(if applicable)</i> | Pages                  | Yes                 |
| Schedule for Imported Materials and Equipment (DPW-23 EC) <i>(if applicable)</i>                | 1 Page                 | Yes                 |

**4. OTHER DOCUMENTS THAT WILL BE INCORPORATED INTO THE CONTRACT**

*(Insert a tick in the "Returnable document" column to indicate which documents must be returned with the tender)*

**Note:** Failure to submit the applicable documents will result in the tender offer being disqualified from further consideration.

| Tender document name  | Number of pages issued | Returnable document   |
|---|------------------------|---|
| Priced Bills of Quantities / Lump Sum Document (complete document inclusive of all parts) | Pages                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Fully priced and completed sectional summary- and final summary pages with the tender.    | Pages                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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| Tender document name        | Number of pages issued | Returnable document                                      |
|-----------------------------|------------------------|--|
| <i>insert document name</i> | Pages                  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <i>insert document name</i> | Pages                  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <i>insert document name</i> | Pages                  | <input type="checkbox"/> Yes <input type="checkbox"/> No |

**5. ADDITIONAL INFORMATION THAT MAY BE REQUIRED FOR TENDER EVALUATION PURPOSES**

| Legal Status of Tendering Entity:<br>If the Tendering Entity is:   | Documentation to be submitted with the tender, or which may be required during the tender evaluation:  |
|--|--|
| a. A close corporation, incorporated prior to 1 May 2011 under the Close Corporations Act, 1984 (Act 69 of 1984, as amended)   | Copies of the Founding Statement – CK1   |
| b. A profit company duly registered as a private company.<br><br>[including a profit company that meets the criteria for a private company, whose Memorandum of Incorporation states that the company is a personal liability company in terms of Section 8(2) (c) of the Companies Act, 2008 (Act 71 of 2008, as amended)]. | Copies of:<br>i. Certificate of Incorporation – CM1;<br>ii. Shareholding Certificates of all Shareholders of the company, plus a signed statement of the company's Auditor, certifying each Shareholder's ownership / shareholding percentage relative to the total; and/or<br>iii. Memorandum of Incorporation in the case of a personal liability company. |
| c. A profit company duly registered as a private company in which any, or all, shares are held by one or more other close corporation(s) or company(ies) duly registered as profit or non-profit company(ies).   | Copies of documents referred to in a. and/or b. above in respect of all such close corporation(s) and/or company(ies).   |
| d. A profit company duly registered as a public company.   | Copy of Certificate of Incorporation – CM1, and a signed statement of the company's Secretary or Auditor confirming that the company is a public company.  |
| e. A non-profit company, incorporated in terms of Section 10 and Schedule 1 of the Companies Act, 2008 (Act 71 of 2008, as amended).   | Copies of:<br>i the Founding Statement – CK1; and<br>ii the Memorandum of Incorporation setting out the object of the company, indicating the public benefit, cultural or social activity, or communal or group interest.  |
| f. A natural person, sole proprietor or a Partnership  | Copy(ies) of the Identity Document(s) of:<br>i. such natural person/ sole proprietor, or<br>each of the Partners to the Partnership.   |
| g. A Trust   | Deed of Trust duly indicating names of the Trustee(s) and Beneficiary (ies) as well as the purpose of the Trust and the mandate of the Trustees.   |

**Signed by the Tenderer**

|                               |                  |             |
|-------------------------------|------------------|-------------|
|                               |                  |             |
| <b>Name of representative</b> | <b>Signature</b> | <b>Date</b> |

## PA-09 (EC): List of Returnable Documents



## **C1.1 FORM OF OFFER AND ACCEPTANCE**

## DPW-07 (EC): FORM OF OFFER AND ACCEPTANCE

|                               |  |                      |  |
|-------------------------------|--|----------------------|--|
| <b>Project title:</b>         | <b><i>DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT</i></b> |                      |  |
| <b>Tender / Quotation no:</b> | MTH59/2022   | <b>Reference no:</b> |  |

### OFFER

The Employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of:

***DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT***

The Tenderer, identified in the offer signature block, has examined the documents listed in the tender data and addenda thereto as listed in the returnable schedules, and by submitting this offer has accepted the conditions of tender.

By the representative of the Tenderer, deemed to be duly authorized, signing this part of this form of offer and acceptance, the Tenderer offers to perform all of the obligations and liabilities of the Contractor under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the conditions of contract identified in the contract data.

**THE TOTAL OFFER INCLUSIVE OF ALL APPLICABLE TAXES (All applicable taxes" includes value- added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies) IS:**

|                         |            |  |
|-------------------------|------------|--|
| <b>Rand words):</b>     | <b>(in</b> | <p>.....</p> <p>.....</p> <p>.....</p> |
| <b>Rand in figures:</b> | <b>R</b>   | .....                                  |

The amount in words takes precedence over the amount in figures. The award of the tender may be subjected to further price negotiation with the preferred tenderer(s). The negotiated and agreed price will be considered for acceptance as ***a firm and final offer***.

This offer may be accepted by the Employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the Tenderer before the end of the period of validity stated in the tender data, whereupon the Tenderer becomes the party named as the Contractor in the conditions of contract identified in the contract data.

**THIS OFFER IS MADE BY THE FOLLOWING LEGAL ENTITY:** (cross out block which is not applicable)

\*Any reference to words "Bid" or "Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

\*\*Any reference to the words "payment reduction" herein shall be construed to have the same meaning as the word "retention"

Company or Close Corporation:  
.....  
.....  
And: Whose Registration Number is:  
.....  
And: Whose Income Tax Reference Number is:  
.....  
CSD supplier number:.....

OR

Natural Person or Partnership:  
.....  
.....  
Whose Identity Number(s) is/are:  
.....  
Whose Income Tax Reference Number is/are:  
.....  
CSD supplier number:.....

**Tender / Quotation no: MTH59/2022**

|   |  |
|---|--|
| <b>AND WHO IS (if applicable):</b>  |  |
| Trading under the name and style of: .....  |  |
| <b>AND WHO IS:</b>  |  |
| Represented herein, and who is duly authorised to do so, by:<br><br>Mr/Mrs/Ms:<br>.....<br>In his/her capacity as:<br>..... | <b>Note:</b><br>A Resolution / Power of Attorney, signed by all the Directors / Members / Partners of the Legal Entity must accompany this Offer, authorising the Representative to make this offer. |

**SIGNED FOR THE TENDERER:**

|                        |           |      |
|------------------------|-----------|------|
|                        |           |      |
| Name of representative | Signature | Date |

**WITNESSED BY:**

|                 |           |      |
|-----------------|-----------|------|
|                 |           |      |
| Name of witness | Signature | Date |

This Offer is in respect of: (Please indicate with an "X" in the appropriate block)

- The official documents .....
- The official alternative .....
- Own alternative (only if documentation makes provision therefore) .....

**(N.B.: Separate Offer and Acceptance forms are to be completed for the main and for each alternative offer)**

**SECURITY OFFERED:**

- (a) the Tenderer accepts that in respect of contracts up to R1 million, a payment reduction\*\* of 5% of the contact value (excluding VAT) will be applicable and will be deducted by the Employer in terms of the applicable conditions of contract
- (b) in respect of contracts above R1 million, the Tenderer offers to provide security as indicated below:

\*Any reference to words "Bid" or "Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

\*\*Any reference to the words "payment reduction" herein shall be construed to have the same meaning as the word "retention"

- |     |  |   |
|-----|--|---|
| (1) | cash deposit of 10 % of the Contract Sum (excluding VAT)   | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| (2) | variable construction guarantee of 10 % of the Contract Sum (excluding VAT)  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| (3) | payment reduction of 10% of the value certified in the payment certificate (excluding VAT)   | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| (4) | cash deposit of 5% of the Contract Sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT)                 | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| (5) | fixed construction guarantee of 5% of the Contract Sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT) | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |

NB. Guarantees submitted must be issued by either an insurance company duly registered in terms of the Insurance Act [Long-Term Insurance Act, 1998 (Act 52 of 1998) or Short-Term Insurance Act, 1998 (Act 35 of 1998)] or by a bank duly registered in terms of the Banks Act, 1990 (Act 94 of 1990) on the pro-forma referred to above. No alterations or amendments of the wording of the pro-forma will be accepted.

**Tender / Quotation no: MTH59/2022**

The Tenderer elects as its *domicilium citandi et executandi* in the Republic of South Africa, where any and all legal notices may be served, as (physical address):

.....  
 .....

**Other Contact Details of the Tenderer are:**

Telephone No..... Cellular Phone No. ....

Fax No .....

Postal address .....

Banker ..... Branch.....

Registration No of Tenderer at Department of Labour .....

CIDB Registration Number: .....

**ACCEPTANCE**

By signing this part of this form of offer and acceptance, the Employer identified below accepts the Tenderer's offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the conditions of contract identified in the contract data. Acceptance of the Tenderer's offer shall form an agreement between the Employer and the Tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

**The terms of the contract are contained in:**

- Part C1 Agreement and contract data, (which includes this agreement)
- Part C2 Pricing data
- Part C3 Scope of work
- Part C4 Site information and drawings and documents or parts thereof, which may be incorporated by reference into the above listed Parts.

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the tender schedules as well as any changes to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and acceptance, are contained in the schedule of deviations attached to and forming part of this agreement. No amendments to or deviations from said documents are valid unless contained in this schedule.

\*Any reference to words "Bid" or "Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

\*\*Any reference to the words "payment reduction" herein shall be construed to have the same meaning as the word "retention" Page 3 of 5

The Tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the Employer's agent (whose details are given in the contract data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the contract data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed original copy of this document, including the schedule of deviations (if any). Unless the tenderer (now contractor) within five (5) working days of the date of such receipt notifies the employer in writing of any reason why he/she cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

**For the Employer:**

|                   |           |      |
|-------------------|-----------|------|
|                   |           |      |
| Name of signatory | Signature | Date |

**Tender / Quotation no: MTH59/2022**

|                                 |   |
|---------------------------------|---|
| <b>Name of Organisation:</b>    | Department of Public Works and Infrastructure |
| <b>Address of Organisation:</b> |   |

**WITNESSED BY:**

|                 |           |      |
|-----------------|-----------|------|
|                 |           |      |
| Name of witness | Signature | Date |

**Schedule of Deviations**

|                        |  |
|------------------------|--|
| <b>1.1.1. Subject:</b> |  |
| <b>Detail:</b>         |  |
| <b>1.1.2. Subject:</b> |  |
| <b>Detail:</b>         |  |
| <b>1.1.3. Subject:</b> |  |
| <b>Detail:</b>         |  |
| <b>1.1.4. Subject:</b> |  |
| <b>Detail:</b>         |  |
| <b>1.1.5. Subject:</b> |  |

\*Any reference to words "Bid" or "Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

\*\*Any reference to the words "payment reduction" herein shall be construed to have the same meaning as the word "retention"

**Detail:**

**1.1.6. Subject:**

**Detail:**

By the duly authorised representatives signing this agreement, the Employer and the Tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the tender data and addenda thereto as listed in the tender schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the Tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this agreement.

\*Any reference to words "Bid" or "Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

\*\*Any reference to the words "payment reduction" herein shall be construed to have the same meaning as the word "retention"  
For Internal & External Use

## **C.2.2 Bills of Quantities**

**DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE**



**BILLS OF QUANTITIES**

**Comprising of:**

Section 1 - Preliminaries and General

Section 2 - Backup Generator Installation

Section 3: Electrical Installations

Section 4: Kitchen Equipment

Section 5: HVAC Equipment

Section 6: Final Summary



## SECTION 1: PRELIMINARIES AND GENERAL

| ITEM NO   | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|-----------|--|------|-----|------|--------|
|           | <b>PART 1A: PRELIMINARY AND GENERAL</b>  |      |     |      |        |
|           | The agreement is to be the General Conditions of Contract (GCC 2010) (Second Edition), Published by the SA Institution of Civil Engineering.   |      |     |      |        |
|           | The preliminaries are to be the Construction and management requirements for works contracts - Part 1: General engineering and construction works (SANS 1921 -1: 2004 Edition 1) prepared by Standards South Africa and shall be deemed to be incorporated herein.               |      |     |      |        |
|           | Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary.                                  |      |     |      |        |
|           | Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading.   |      |     |      |        |
|           | Where any item is not relevant to this specific contract such items is marked N/A (signifying "not applicable").   |      |     |      |        |
|           | Adjustment of the preliminaries: each item priced, is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time. |      |     |      |        |
|           | Time (T) related Preliminaries will only be adjusted for omissions or additions, issued by the Employer, or delays caused by the Employer, for which variation and extension of time has been granted.   |      |     |      |        |
|           | <b>SECTION A: GENERAL CONDITIONS OF CONTRACT</b>   |      |     |      |        |
| <b>A1</b> | General (Clause 1)   |      |     |      |        |
|           | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>A2</b> | Basis of Contract (Clause 2)   |      |     |      |        |
|           | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>A3</b> | Engineer (Clause 3)  |      |     |      |        |
|           | F: ..... V: ..... T: .....   | Item |     |      |        |
|           | <b>CARRIED FORWARD</b>   |      |     |      |        |

SECTION 1: PRELIMINARIES AND GENERAL



**DORDRECHT CORRECTIONAL CENTRE  
REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT**

| ITEM NO | DESCRIPTION | UNIT | QTY | RATE | AMOUNT |
|---------|-------------|------|-----|------|--------|
|---------|-------------|------|-----|------|--------|

|                        |  |      |  |  |  |
|------------------------|--|------|--|--|--|
|                        | <b>BROUGHT FORWARD</b>   |      |  |  |  |
| <b>A4</b>              | Contractor's General Obligation (Clause 4)   |      |  |  |  |
|                        | F: ..... V: ..... T: .....   | Item |  |  |  |
| <b>A5</b>              | Time and Related Matters (Clause 5)  |      |  |  |  |
|                        | F: ..... V: ..... T: .....   | Item |  |  |  |
| <b>A6</b>              | Payment and Related Matters (Clause 6)   |      |  |  |  |
|                        | F: ..... V: ..... T: .....   | Item |  |  |  |
| <b>A7</b>              | Quality and Related Matters (Clause 7)   |      |  |  |  |
|                        | F: ..... V: ..... T: .....   | Item |  |  |  |
| <b>A8</b>              | Risk and Related Matters (Clause 8)  |      |  |  |  |
|                        | F: ..... V: ..... T: .....   | Item |  |  |  |
| <b>A9</b>              | Termination of Contract (Clause 9)   |      |  |  |  |
|                        | F: ..... V: ..... T: .....   | Item |  |  |  |
| <b>A10</b>             | Claims and Disputes (Clause 10)  |      |  |  |  |
|                        | F: ..... V: ..... T: .....   | Item |  |  |  |
|                        | <b>SECTION B: SANS 1921-1:2004 (Edition 1):<br/>CONSTRUCTION AND MANAGEMENT<br/>REQUIREMENTS FOR WORKS CONTRACTS: PART 1</b> |      |  |  |  |
| <b>B1</b>              | Scope  |      |  |  |  |
|                        | F: ..... V: ..... T: .....   | Item |  |  |  |
| <b>B2</b>              | Normative references   |      |  |  |  |
|                        | F: ..... V: ..... T: .....   | Item |  |  |  |
| <b>B3</b>              | Definitions  |      |  |  |  |
|                        | F: ..... V: ..... T: .....   | Item |  |  |  |
| <b>B4</b>              | Requirements for construction and management   |      |  |  |  |
|                        | F: ..... V: ..... T: .....   | Item |  |  |  |
| <b>B4.1</b>            | General  |      |  |  |  |
|                        | F: ..... V: ..... T: .....   | Item |  |  |  |
| <b>B4.2</b>            | Responsibilities for design and construction   |      |  |  |  |
|                        | F: ..... V: ..... T: .....   | Item |  |  |  |
| <b>CARRIED FORWARD</b> |  |      |  |  |  |

## SECTION 1: PRELIMINARIES AND GENERAL



**DORDRECHT CORRECTIONAL CENTRE  
REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT**

| ITEM NO      | DESCRIPTION                                 | UNIT | QTY | RATE | AMOUNT |
|--------------|---|------|-----|------|--------|
|              |   |      |     |      |        |
|              | <b>BROUGHT FORWARD</b>                      |      |     |      |        |
| <b>B4.3</b>  | Planning, programme and method statements   |      |     |      |        |
|              | F: ..... V: ..... T: .....                  | Item |     |      |        |
| <b>B4.4</b>  | Quality assurance                           |      |     |      |        |
|              | F: ..... V: ..... T: .....                  | Item |     |      |        |
| <b>B4.5</b>  | Settling out                                |      |     |      |        |
|              | F: ..... V: ..... T: .....                  | Item |     |      |        |
| <b>B4.6</b>  | Management and disposal of water            |      |     |      |        |
|              | F: ..... V: ..... T: .....                  | Item |     |      |        |
| <b>B4.7</b>  | Blasting                                    |      |     |      |        |
|              | F: ..... V: ..... T: .....                  | Item |     |      |        |
| <b>B4.8</b>  | Works adjacent to services and structures   |      |     |      |        |
|              | F: ..... V: ..... T: .....                  | Item |     |      |        |
| <b>B4.9</b>  | Management of the works and site            |      |     |      |        |
|              | F: ..... V: ..... T: .....                  | Item |     |      |        |
| <b>B4.10</b> | Earthworks                                  |      |     |      |        |
|              | F: ..... V: ..... T: .....                  | Item |     |      |        |
| <b>B4.11</b> | Testing                                     |      |     |      |        |
|              | F: ..... V: ..... T: .....                  | Item |     |      |        |
| <b>B4.12</b> | Materials, samples and fabrication drawings |      |     |      |        |
|              | F: ..... V: ..... T: .....                  | Item |     |      |        |
| <b>B4.13</b> | Equipment                                   |      |     |      |        |
|              | F: ..... V: ..... T: .....                  | Item |     |      |        |
| <b>B4.14</b> | Site establishment                          |      |     |      |        |
|              | F: ..... V: ..... T: .....                  | Item |     |      |        |
| <b>B4.15</b> | Survey control                              |      |     |      |        |
|              | F: ..... V: ..... T: .....                  | Item |     |      |        |
|              |   |      |     |      |        |
|              |   |      |     |      |        |
|              | <b>CARRIED FORWARD</b>                      |      |     |      |        |

## SECTION 1: PRELIMINARIES AND GENERAL

| ITEM NO   | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|---|--|------|-----|------|--------|
| <b>BROUGHT FORWARD</b>  |  |      |     |      |        |
| <b>B4.16</b>  | Temporary works  |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>B4.17</b>  | Existing services  |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>B4.18</b>  | Health and safety  |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>B4.19</b>  | Environmental requirements   |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>B4.20</b>  | Alterations, additions, extensions and modifications to existing works |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>B4.21</b>  | Inspection of adjoining structures, services, buildings and property.  |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>B4.22</b>  | Attendance on nominated and selected subcontractors                    |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      | N/A    |
| <b>SECTION C: SCOPE OF WORK IN ACCORDANCE WITH SANS 10403</b>     |  |      |     |      |        |
| (The reference to clauses refer to table B.1 of SANS 1921-1:2004) |  |      |     |      |        |
| <b>C1</b>   | Cerification by recognised bodies - (Clause 4.4)                       |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>C2</b>   | Agrément - (Clause 4.5)  |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>C3</b>   | Other services and facilities - (Clause 4.8)                           |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>CARRIED FORWARD</b>  |  |      |     |      |        |



## SECTION 1: PRELIMINARIES AND GENERAL

| ITEM NO   | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|---|--|------|-----|------|--------|
| <b>BROUGHT FORWARD</b>  |  |      |     |      |        |
| D6  | Telephone - (Clause 4.14.3)  |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| D7  | Office for inspector of works - (Clause 4.14.3)  |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      | N/A    |
| D8  | Telephone in office for inspector of works - (Clause 4.14.3)   |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      | N/A    |
| D9  | Provision and erection of signboards - (Clause 4.14.6)   |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      | N/A    |
| D10   | Termination, diversion or maintenance of existing services - (Clause 4.17.1)   |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| D11   | Services which are known to exist - (Clause 4.17.3)  |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| D12   | Detection apparatus - (Clause 4.17.4)  |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| D13   | Additional health and safety requirements - (Clause 4.18)  |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>SECTION E: SPECIFIC PRELIMINARIES</b>  |  |      |     |      |        |
| (Section E contains specific preliminaries items which apply to this contract except where "N/A" (Not applicable) appears against the item. |  |      |     |      |        |
| E1  | <b>WORKING OVER THE WEEKEND</b>  |      |     |      |        |
|   | Contractor to make allowance to work over the weekend in order to allow for the disconnection of utilities and the connection of the generator. The weekend to be used for disconnection and connection and must be communicated to the Department two weeks in advance. |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>CARRIED FORWARD</b>  |  |      |     |      |        |

SECTION 1: PRELIMINARIES AND GENERAL

| ITEM NO                | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|------------------------|--|------|-----|------|--------|
| <b>BROUGHT FORWARD</b> |  |      |     |      |        |
| <b>E2</b>              | <b>SITE INSTRUCTIONS</b>   |      |     |      |        |
|                        | Site instructions issued on site are to be recorded in triplicate in a Site Instruction book which is to be maintained on site by the Contractor   |      |     |      |        |
|                        | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>E3</b>              | <b>PLANT RECORD</b>  |      |     |      |        |
|                        | At every site meeting, the Contractor shall provide the Engineer/Principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.  |      |     |      |        |
|                        | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>E4</b>              | <b>SITE OFFICE</b>   |      |     |      |        |
|                        | The Contractor is to allow for the provision and removal of a site office in accordance with the Principal Agent's requirements. To accommodate 6 persons.   |      |     |      |        |
|                        | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>E5</b>              | <b>TRADE NAMES</b>   |      |     |      |        |
|                        | Wherever a Trade Name for any product has been described in the Bill of Quantities, the Bidder's attention is drawn to the fact that any other product of equal quality may be used, subject to the written approval of the Principal Agent being obtained prior to the closing date for the submission of the Bids. |      |     |      |        |
|                        | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>E6</b>              | <b>INACCURATE AND DEFECTIVE WORK EXECUTED UNDER PREVIOUS CONTRACT</b>  |      |     |      |        |
|                        | The contractor shall, after taking possession of the site and before commencing the work, check all levels, liners, profiles and the like and satisfy himself as to the dimensional accuracy of all work executed under the previous contract which may affect his work.   |      |     |      |        |
|                        | Should any inaccurate or defective work be found, the contractor shall immediately notify the principal agent in writing requesting his instructions with regard thereto and afford every facility to those rectifying such inaccurate or defective work.  |      |     |      |        |
|                        | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>CARRIED FORWARD</b> |  |      |     |      |        |

SECTION 1: PRELIMINARIES AND GENERAL




**DORDRECHT CORRECTIONAL CENTRE  
REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT**

| ITEM NO                | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|------------------------|--|------|-----|------|--------|
| <b>BROUGHT FORWARD</b> |  |      |     |      |        |
| <b>E7</b>              | <b>VIEWING THE SITE IN SECURITY AREAS</b><br>If the site is situated in a security area and the bidder must arrange with the Authorities to obtain permission to enter the site for Bidding purposes.<br><br>F: ..... V: ..... T: .....  | Item |     |      |        |
| <b>E8</b>              | <b>COMMENCEMENT OF WORKS IN SECURITY AREAS</b><br>If the works falls within a security area, the contractor must arrange with the Authorities and give the necessary notices before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account.<br><br>F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>E9</b>              | <b>ENTRANCE PERMITS TO SECURITY AREAS</b><br>If the works falls within a security area, the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which be issued from the time to time regarding the protection of persons and property under the control of the Authority.<br><br>F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>E10</b>             | <b>PROHIBITION ON TAKING PHOTOGRAPHS</b><br>In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking photographs, except when authorised thereto by or on behalf of the Minister<br><br>The same prohibition is also applicable to all Correctional Institutions in terms of article 44.1 of the Correctional Services Act 8 of 1959.<br><br>F: ..... V: ..... T: ..... | Item |     |      |        |
| <b>E11</b>             | <b>TOILET FACILITIES</b><br>Allow for the supply and removal of portable toilet facilities. The contractor is to maintain the cleanliness of the facilities throughout the contract period. The contractor must provide enough toilets for his/her entire workforce.<br><br>F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>CARRIED FORWARD</b> |  |      |     |      |        |



SECTION 1: PRELIMINARIES AND GENERAL

|  public works & infrastructure<br>Department: Public Works and Infrastructure<br>REPUBLIC OF SOUTH AFRICA |  |      |     |      |        |
|---|--|------|-----|------|--------|
| <b>DORDRECHT CORRECTIONAL CENTRE</b><br><b>REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT</b>  |  |      |     |      |        |
| ITEM NO   | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|   |  |      |     |      |        |
|   | <b>BROUGHT FORWARD</b>   |      |     |      |        |
|   |  |      |     |      |        |
| <b>E12</b>  | <b>MANAGEMENT OF WATER</b>   |      |     |      |        |
|   | Water for Construction puposes must be obtained from alternative water sources (i.e. supply other than water that is produced and distributed by a regulated water service authority from a licensed water treatment works for human consumption), e.g. dams, rivers, boreholes, springs, rainwater harvesting, recycled sewerage water, etc. The alternative water source shall not be of an inferior quality/ standard than that required for construction purposes. The client reserves the right through his agents to test such supplies or request certificates confirming the grade and nature of the water supply. Relevant knowledge of the respective area will be an advantage. |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
|   |  |      |     |      |        |
| <b>E13</b>  | <b>OCCUPATIONAL HEALTH AND SAFETY ACT &amp; CONSTRUCTION REGULATIONS</b>   |      |     |      |        |
|   | It is required of the Contractor to thoroughly study the Health and Safety specification that must be read together with and is deemed to be incorporated under this section of the Bill of Quantities. Provision for pricing thereof is made under items E12.1 to E12.15 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained.  |      |     |      |        |
|   | The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety specification is compulsory. In the event of partial or total non-compliance, the Principal Agent , notwithstanding the provisions of Clause 6 of Section 1: Preliminaries (Part A) or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the Contractor provides satisfactory proof of compliance. The Contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.   |      |     |      |        |
|   | All references hereafter are to Regulations of the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993).   |      |     |      |        |
|   |  |      |     |      |        |
|   | <b>CARRIED FORWARD</b>   |      |     |      |        |


SECTION 1: PRELIMINARIES AND GENERAL



**DORDRECHT CORRECTIONAL CENTRE  
REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT**

| ITEM NO                | DESCRIPTION   | UNIT | QTY | RATE | AMOUNT |
|------------------------|---|------|-----|------|--------|
| <b>BROUGHT FORWARD</b> |   |      |     |      |        |
|                        | The contractor shall, in submitting his bid, demonstrate that he has made provision for the cost of compliance with the specified health and safety requirements, the Act and the Construction Regulations.   |      |     |      |        |
|                        | F: ..... V: ..... T: .....  | Item |     |      |        |
| <b>E13.1</b>           | <b>NOTIFICATION OF CONSTRUCTION WORK (Construction Regulations 3)</b>   |      |     |      |        |
|                        | The contractor shall, before commencing work, notify the Department of Labour of the intend construction work in terms o Regulation 3. The Contractor shall submit the notification in writing, on the appropriate form, prior to commencement of work.   |      |     |      |        |
|                        | F: ..... V: ..... T: .....  | Item |     |      |        |
| <b>E13.2</b>           | <b>HEALTH AND SAFETY PLAN (Construction regulations 5.4)</b>  |      |     |      |        |
|                        | The Contractor shall provide and demonstrate to the Principal Agent a suitable and sufficiently documented health and safety plan based on the Act, Construction Regulations and the health and safety specification, which shall be applied from the date of commencement of and for the duration of the construction work. The Contractor shall ensure that a copy of the health and safety plan is available on request to an employee, inspector, sub contractor or principal agent all in terms of Regulation 5. |      |     |      |        |
|                        | F: ..... V: ..... T: .....  | Item |     |      |        |
| <b>E13.3</b>           | <b>REGISTRATION WITH THE COMPENSATION FUND (Construction Regulations 5.3 f)</b>   |      |     |      |        |
|                        | The Contractor shall provide proof of his registration and good standing with the Compensation Fund or a licensed compensation insurer prior to the commencement of work  |      |     |      |        |
|                        | F: ..... V: ..... T: .....  | Item |     |      |        |
| <b>CARRIED FORWARD</b> |   |      |     |      |        |

SECTION 1: PRELIMINARIES AND GENERAL

|  public works & infrastructure<br>Department: Public Works and Infrastructure<br>REPUBLIC OF SOUTH AFRICA |   |      |     |      |        |
|---|---|------|-----|------|--------|
| <b>DORDRECHT CORRECTIONAL CENTRE</b><br><b>REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT</b>  |   |      |     |      |        |
| ITEM NO   | DESCRIPTION   | UNIT | QTY | RATE | AMOUNT |
| <b>BROUGHT FORWARD</b>  |   |      |     |      |        |
| <b>E13.4</b>  | <b>HEALTH AND SAFETY FILE ( Construction Regulation 5.7)</b><br>The contractor shall ensure that a health and safety file, which shall include all documentation required in terms of health and safety specification, the Act and the Construction Regulations, is opened and kept on site and made available to the Principal Agent or inspector upon request. Upon completion of the works, the contractor shall hand over a consolidated health and safety file to the principal agent.<br><br>F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>E13.5</b>  | <b>SUPERVISION OF CONSTRUCTION WORK ( Safety officer) (Construction Regulation 6)</b><br>The Contractor shall appoint a full-time competent employee in writing as the construction supervisor, with the duty of supervising the construction work.<br><br>The Contractor shall appoint a full-time or part-time construction safety officer in writing to assist in the control of all safety related aspects on the site. Such appointments are required to ensure that at all times the requirements of the Act and Construction Regulations are adhered to. Refer to Regulation 6.<br><br>F: ..... V: ..... T: .....  | Item |     |      |        |
| <b>E13.6</b>  | <b>RISK ASSESSMENT AND SAFETY POLICY ( Construction Regulation 7)</b><br>Before commencing work the Contractor shall cause a risk assessment to be performed by a competent person appointed in writing and the risk assessment shall form part of the health and safety plan. A copy of the risk assessment shall be available on site at all times for inspection.<br>The Contractor shall at all time carry out the works in a manner to avoid the risk of bodily harm to persons or risk of damage to any property. He shall take all precautions regarding training of employees in any hazards and the related work procedures, health and safety induction training of employees, visitors or any other persons entering the site and provide personal protective equipment to all employees and visitors to site which are necessary and adequate to eliminate any conditions which contribute to the risk of injury to persons or damage to property in terms of Regulation 7.<br><br>F: ..... V: ..... T: ..... | Item |     |      |        |
| <b>CARRIED FORWARD</b>  |   |      |     |      |        |

SECTION 1: PRELIMINARIES AND GENERAL



**DORDRECHT CORRECTIONAL CENTRE  
REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT**

| ITEM NO                | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|------------------------|--|------|-----|------|--------|
| <b>BROUGHT FORWARD</b> |  |      |     |      |        |
| <b>E13.7</b>           | <b>SIGNIFICANT HAZARD IDENTIFICATION RISK ASSESSMENT PREPARED BY THE DESIGN CONSULTANTS</b>  |      |     |      |        |
|                        | The Contractor shall allow for additional financial provision, if any, to take the necessary precautions regarding the significant hazards and risks identified and assessed by the design consultants.  |      |     |      |        |
|                        | F: ..... V: ..... T: .....   | Item |     |      | N/A    |
| <b>E13.8</b>           | <b>ADDITIONAL FINANCIAL PROVISION</b>  |      |     |      |        |
|                        | The Contractor shall allow for additional financial provision, if any, to comply with the requirements of the Occupational Health and Safety Act ( Act No 85 of 1993) and the Construction Regulations issued there under which have not been specifically elsewhere.  |      |     |      |        |
|                        | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>E13.9</b>           | <b>FALL PROTECTION PLAN (Construction Regulation 8)</b>  |      |     |      |        |
|                        | The Contractor shall, before commencing any construction work submit a fall protection plan identified all steps to be taken in order to ensure the continued adherence to the fall protection plan and shall include a risk assessment of all work carried out from a relevant position. The fall protection plan shall form part of the health and safety plan and file. |      |     |      |        |
|                        | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>E13.10</b>          | <b>PHYSICAL AND PSYCHOLOGICAL FITNESS (Construction Regulation 8.2 (b))</b>  |      |     |      |        |
|                        | The Contractor and sub-contractor shall before commencing any construction work submit proof of his employees that shall carried out work from an elevated position their physical and psychological fitness and shall be recorded in the health and safety file.  |      |     |      |        |
|                        | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>CARRIED FORWARD</b> |  |      |     |      |        |

SECTION 1: PRELIMINARIES AND GENERAL



**DORDRECHT CORRECTIONAL CENTRE  
REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT**

| ITEM NO                | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|------------------------|--|------|-----|------|--------|
| <b>BROUGHT FORWARD</b> |  |      |     |      |        |
| <b>E13.11</b>          | <b>CONSTRUCTION VEHICLES AND MOBILE PLANT</b><br><b>(Construction Regulations 21)</b><br>The Contractor and sub-contractors shall ensure that all operated workers received training and been certified competent to operate such vehicles, and are physical and psychological fit to operate such construction vehicles and mobile plants and shall be recorded in the health and safety file.<br>F: ..... V: ..... T: .....                | Item |     |      |        |
| <b>E13.12</b>          | <b>TRAINING (Construction Regulation 8 (c))</b><br>The Contractor and sub-contractor shall, before commencing any construction work, submit his training program of all his employees. This program shall form part of the health and safety plan.<br>F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>E13.13</b>          | <b>DEMOLITION WORK (Construction Regulations 12)</b><br>The Contractor shall, before any demolition work shall be carried out, submit all methods of demolition to be used. This method shall form part of the health and safety plan and file.<br>F: ..... V: ..... T: .....  | Item |     |      |        |
| <b>E13.14</b>          | <b>REMOVAL AND DISPOSAL OF ASBESTOS MATERIAL (Asbestos Regulation)</b><br>The principle contractor shall appoint a contractor that is registered with the Department of Labour as an AIA.<br>The contractor must allow for:<br>NOTIFICATION OF ASBESTOS PROCESSING<br>PERSONAL PROTECTIVE EQUIPMENT<br>PACKAGING AND TRANSPORT AND STORAGE TO DISPOSAL SITE<br>DEMOLITION WORK<br>LABELLING, INFORMATION, ETC.<br>F: ..... V: ..... T: ..... | Item |     |      | N/A    |
| <b>CARRIED FORWARD</b> |  |      |     |      |        |

SECTION 1: PRELIMINARIES AND GENERAL



**DORDRECHT CORRECTIONAL CENTRE  
REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT**

| ITEM NO                | DESCRIPTION   | UNIT | QTY | RATE | AMOUNT |
|------------------------|---|------|-----|------|--------|
| <b>BROUGHT FORWARD</b> |   |      |     |      |        |
| E13.15                 | <b>RISK COMPLIANCE AREAS (As Outlined In "Volume Three": Covid-19 Guidelines for Management of Risk on Construction Sites and Covid-19 addendum (Item 1-12) attached to Health and Safety specification)</b>  |      |     |      |        |
|                        | · Disinfection of the workplace at regular intervals as outlined within the Guidelines "Annexure A" Workplace Preparation Procedure;  |      |     |      |        |
|                        | · Ensure Staff and Security Staff have PPEs (i.e. masks,gloves, sanitisers, etc.)   |      |     |      |        |
|                        | · Installed thermal scanners to check temperature of all staff and visitors. Ensure training of Security Staff for use of thermal scanners. Register to be implemented for staff and visitors to site with identification criteria "ID number, Name, Age, Health Status and Contact details"; |      |     |      |        |
|                        | · Isolation room identified/constructed on site;  |      |     |      |        |
|                        | · Ensure sanitisers and soap are available in locker rooms for staff;   |      |     |      |        |
|                        | · Ensure staff or visitors are wearing masks before entering;   |      |     |      |        |
|                        | · Ensure social distance on site;   |      |     |      |        |
|                        | · Notification about the restriction of the number of people allowed on site at one time;   |      |     |      |        |
|                        | · Disinfection of rooms for meetings and strictly keeping to social distancing and wearing masks;   |      |     |      |        |
|                        | · Plans to rotate work force on percentage allowable on site to comply with regulations;  |      |     |      |        |
|                        | · Permits issued by Authorising Authority for Work Force and vehicles for Cross Provincial and District Borders   |      |     |      |        |
|                        | F: ..... V: ..... T: .....  | Item |     |      |        |
| <b>CARRIED FORWARD</b> |   |      |     |      |        |

SECTION 1: PRELIMINARIES AND GENERAL



**DORDRECHT CORRECTIONAL CENTRE  
REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT**

| ITEM NO                | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|------------------------|--|------|-----|------|--------|
| <b>BROUGHT FORWARD</b> |  |      |     |      |        |
| <b>E14</b>             | <b>IMPLEMENTATION OF LABOUR-INTENSIVE INFRASTRUCTURE PROJECTS UNDER THE EXPANDED PUBLIC WORKS PROGRAMME (EPWP)</b>   |      |     |      |        |
|                        | The contractor shall comply with all the requirements of the "Code of Good Practice for Employment and Conditions of Work for Special Public Works Programmes" issued in terms of the "Basic Conditions of Employment Act, 1997 (Act No 75 of 1997)" and the related "Ministerial Determination", for the employment of locally employed temporary workers on a labour intensive infrastructure project under the Expanded Public Works Programme (EPWP)   |      |     |      |        |
|                        | The contractor shall maintain daily records with regard to the workers employed and shall, on a monthly basis, submit a report (Contract, ID Copy, Attendance register, Proof of payment) to the principal agent in the prescribed format. Compulsory indicators such as the project budget, actual project expenditure, number of job opportunities created, demographic characteristics of workers employed, minimum daily wage rate, number of person-days of employment created and number of training person-days, shall be included in said report, all as defined in the "Guidelines for the Implementation of Labour-Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP)" |      |     |      |        |
|                        | Provision for pricing of compliance with the aforementioned is made under this clause and it is explicitly pointed out that all that all requirements in respect of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained  |      |     |      |        |
|                        | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>CARRIED FORWARD</b> |  |      |     |      |        |

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**DORDRECHT CORRECTIONAL CENTRE  
REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT**

| ITEM NO                | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|------------------------|--|------|-----|------|--------|
| <b>BROUGHT FORWARD</b> |  |      |     |      |        |
| <b>E14.1</b>           | <b>DECLARATION - EPWP PROGRAMME</b>  |      |     |      |        |
|                        | The contractor must adhere to all rules, regulations and requirements regarding the EPWP programme, specifically but not limited to the following: |      |     |      |        |
|                        | <b>1. Labour intensive construction methods (LIC)</b>  |      |     |      |        |
|                        | 1.1 Comply to implementation of LIC BOQ items specified elsewhere in the tender documents  |      |     |      |        |
|                        | <b>2. Recruitment and placement of EPWP NYS (Not Applicable)</b>   |      |     |      |        |
|                        | 2.1 Recruitment, placement and exposure training of 25 (Twenty five) participants  |      |     |      |        |
|                        | 2.2 Comply to EPWP BOQ specifications and code of good practice  |      |     |      |        |
|                        | <b>3. Recruitment and placement of local labourers</b>   |      |     |      |        |
|                        | 3.1 Recruitment and placement of minimum 5 (Five) local labourers  |      |     |      |        |
|                        | 3.2 Comply with applicable wage order/determination or agreement, in terms of labour relations act or wage act                                     |      |     |      |        |
|                        | <b>4. Comply with EPWP monthly reporting requirements</b>  |      |     |      |        |
|                        | Monthly prepare and submit below EPWP reports attached to monthly payments certificate   |      |     |      |        |
|                        | 4.1 All employees and EPWP participants contracts  |      |     |      |        |
|                        | 4.2 All employees and EPWP participants certified SA ID copies   |      |     |      |        |
|                        | 4.3 All employees and EPWP attendance register   |      |     |      |        |
|                        | 4.4 All employees and EPWP proof of payment  |      |     |      |        |
|                        | 4.5 EPWP reports populated on standard templates   |      |     |      |        |
|                        | <b>5. Penalties for non compliance</b>   |      |     |      |        |
|                        | Acknowledge non compliance of R3000-00 (Three thousand rand) per month per participant   |      |     |      |        |
|                        | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>CARRIED FORWARD</b> |  |      |     |      |        |



SECTION 1: PRELIMINARIES AND GENERAL

| ITEM NO                | DESCRIPTION   | UNIT | QTY | RATE | AMOUNT |
|------------------------|---|------|-----|------|--------|
| <b>BROUGHT FORWARD</b> |   |      |     |      |        |
| <b>E15</b>             | <b>HIV/AIDS AWARENESS</b>   |      |     |      |        |
|                        | It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities. Provision for pricing of HIV/AIDS awareness is made under items E14.1 to E14.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained |      |     |      |        |
|                        | The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of Clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment   |      |     |      |        |
| <b>E15.1</b>           | <b>AWARENESS CHAMPION</b>   |      |     |      |        |
|                        | Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification  |      |     |      |        |
|                        | F: ..... V: ..... T: .....  | Item |     |      |        |
| <b>E15.2</b>           | <b>AWARENESS WORKSHOPS</b>  |      |     |      |        |
|                        | Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multimedia techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification  |      |     |      |        |
|                        | F: ..... V: ..... T: .....  | Item |     |      |        |
| <b>CARRIED FORWARD</b> |   |      |     |      |        |

## SECTION 1: PRELIMINARIES AND GENERAL

| ITEM NO                                     | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|---|--|------|-----|------|--------|
| <b>BROUGHT FORWARD</b>                      |  |      |     |      |        |
| <b>E15.3</b>                                | <b>POSTERS, BOOKLETS, VIDEOS, ETC.</b>   |      |     |      |        |
|   | Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification  |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>E15.4</b>                                | <b>ACCESS TO CONDOMS</b>   |      |     |      |        |
|   | Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification  |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>E15.5</b>                                | <b>MONITORING</b>  |      |     |      |        |
|   | Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>E16</b>                                  | <b>CONSTRUCTION VEHICLES FOR DELIVERY OF EQUIPMENT</b>   |      |     |      |        |
|   | Allow for vehicles such as truck cranes, forklifts, etc for the moving of the generator into place and delivery of other necessary equipment for the project.  |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>E17</b>                                  | <b>ALTERNATE POWER SUPPLIES FOR CONSTRUCTION</b>   |      |     |      |        |
|   | Allow for the supply of portable generators and/or other alternate power supplies for construction equipment in the event of power failure on the premises.  |      |     |      |        |
|   | F: ..... V: ..... T: .....   | Item |     |      |        |
| <b>CARRIED FORWARD TO SECTION 6 SUMMARY</b> |  |      |     |      |        |



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**DORDRECHT CORRECTIONAL CENTRE**  
**REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT**

**TENDER NUMBER:**

| ITEM NO                | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|------------------------|--|------|-----|------|--------|
| <b>2.1</b>             | <b><u>EMERGENCY STANDBY GENERATOR ENGINE</u></b>   |      |     |      |        |
|                        | Supply, Deliver, install and commissioning of standby generator complete in canopy as specified for the following sizes:   |      |     |      |        |
|                        | The Engine shall be a Diesel Fuelled, old starting liquid cooled, compression ignition, direct injection industrial type as complying with SANS 8528. The cooling system shall be thermostatically controlled entirely self-contained and shall consist of a radiator, fan and Circulation pump as per DPWI 722 specification.   |      |     |      |        |
|                        | <u>The following from part of genset:</u> Water jacket heater, fuel level indicator, fire fuse link shut off system, drip tray, battery charger, battery charger amp meter, fuel filling pump, Anti vibration mounts.  |      |     |      |        |
| 2.1.1                  | 100kVA, 3 Phase Open Type Indoor Generator Set   |      |     |      |        |
|                        | Supply   | ea   | 1   |      |        |
|                        | Install  | ea   | 1   |      |        |
| <b>2.2</b>             | <b><u>3CR12 CHANGE OVER PANEL WITH CONTROLLER</u></b>  |      |     |      |        |
|                        | The control shall contain the engine, alternator management and protection system, as well as the control logistics for the remote changeover switchgear. These functions shall be controlled by a micro-processor-based programmable control and it shall be equipped with an optional GSM cellphone-type modem as per DPWI 722 specifications (modem with sim card), c/w adjustable CB, motorized c/p & by pass switch |      |     |      |        |
| 2.2.1                  | Supply   | ea   | 1   |      |        |
|                        | Install  | ea   | 1   |      |        |
|                        | <b><u>LUBRICATION, OIL AND DIESEL</u></b>  |      |     |      |        |
|                        | Supply and fill up to 100% all required lubrications to run generator including diesel. Tank shall be a 1000L capacity   | item | 1   |      |        |
| <b>2.3</b>             | <b><u>EXHAUST SILENCER - Sound Attenuated</u></b>  |      |     |      |        |
| 2.3.1                  | Design supply and install the stainless steel exhaust silencer for the mentioned generator, including lagging:   |      |     |      |        |
|                        | Supply   | ea   | 1   |      |        |
|                        | Install  | ea   | 1   |      |        |
| <b>2.4</b>             | <b><u>STRUCTURAL - TYPICAL GENERATOR BASE</u></b>  |      |     |      |        |
| 2.4.1                  | Supply and install a concrete plinth (4.7m x 1.9m x 0.2m) according to the specifications and drawing, with mesh reinforcement   | Item | 0   |      |        |
| <b>2.5</b>             | <b><u>WARNING NOTICES</u></b>  |      |     |      |        |
| 2.5.1                  | Supply and Install warning notices on the container as specified. Set of Warning Notices as per SANS and OHS specifications.   | Item | 1   |      |        |
| <b>2.6</b>             | <b><u>DOCUMENTATION</u></b>  |      |     |      |        |
| 2.6.1                  | Compilation of Maintenance, operational and technical Manuals to the client satisfaction.<br>Supply manuals  | sum  | 1   |      |        |
| <b>2.7</b>             | <b><u>SITE TESTING, COMMISSIONING &amp; DOCUMENTATION</u></b>  |      |     |      |        |
| 2.7.1                  | Test and Commission to deliver a fully operational generating set to the client and engineers satisfaction:<br>At the suppliers premises, prior to delivery to site<br>On site after completion of the installation  | Item | 1   |      |        |
| <b>CARRIED FORWARD</b> |  |      |     |      |        |



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**DORDRECHT CORRECTIONAL CENTRE**  
**REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT**

**TENDER NUMBER:**

| ITEM NO                                     | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|---|--|------|-----|------|--------|
|   | <b>BROUGHT FORWARD</b>   |      |     |      |        |
| <b>2.8</b>                                  | <b><u>1 YEAR MAINTENANCE</u></b>   |      |     |      |        |
| 2.8.1                                       | 12 Months maintenance as per the specification.<br>Quarterly (4) service of the plant as per the manufacturer's requirements | Item | 4   |      |        |
| <b>2.9</b>                                  | <b><u>PADLOCKS</u></b>   |      |     |      |        |
| 2.9.1                                       | Supply and install A82 padlocks.   | Item | 5   |      |        |
| <b>2.10</b>                                 | <b><u>DECOMMISSION</u></b>   |      |     |      |        |
| 2.10.1                                      | Decommissioning of the existing 68kVA generator and delivering to storage/appointed location.                                | sum  | 1   |      |        |
| <b>CARRIED FORWARD TO SECTION 6 SUMMARY</b> |  |      |     |      |        |

## SECTION 2: BACKUP GENERATOR INSTALLATION



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## DORDRECHT CORRECTIONAL CENTRE

## REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT

## TENDER NUMBER:

| ITEM NO                | DESCRIPTION   | UNIT              | QTY      | RATE     | AMOUNT |
|------------------------|---|-------------------|----------|----------|--------|
| <b>3.1</b>             | <b><u>Socket Outlet</u></b><br>Supply and Install the following 3 pin socket outlet complete with cover plate in areas as indicated by the client, draw boxes measured elsewhere. |                   |          |          |        |
| 3.1.1                  | 16A 3-pin single socket outlet with 2-pin euro socket   | Supply<br>Install | ea<br>ea | 20<br>20 |        |
| 3.1.2                  | 16A 3-pin double socket outlet with 2x2 pin euro socket   | Supply<br>Install | ea<br>ea | 7<br>7   |        |
| 3.1.3                  | Dedicated Socket outlet   | Supply<br>Install | ea<br>ea | 20<br>20 |        |
| 3.1.4                  | Surface Mounted Industrial Socket Complete in a Box   | Supply<br>Install | ea<br>ea | 10<br>10 |        |
| <b>3.2</b>             | <b><u>Isolators</u></b><br>Supply and Install the following isolators complete with cover plate in the kitchen, draw boxes measured elsewhere                                     |                   |          |          |        |
| 3.2.1                  | 20A 2-pole: Hot water boiler/   | Supply<br>Install | ea<br>ea | 5<br>5   |        |
| 3.2.2                  | 30A 2 pole: illuminance signage   | Supply<br>Install | ea<br>ea | 5<br>5   |        |
| 3.2.3                  | 30A 2-pole: AC units  | Supply<br>Install | ea<br>ea | 6<br>6   |        |
| 3.2.4                  | 30A 2-pole: Geyser  | Supply<br>Install | ea<br>ea | 7<br>7   |        |
| <b>3.3</b>             | <b><u>Light Switches</u></b><br>Supply and Install the following light switches complete with cover plate where replacement is required, draw boxes measured elsewhere            |                   |          |          |        |
| 3.3.1                  | 16A Single lever  | Supply<br>Install | ea<br>ea | 15<br>15 |        |
| 3.3.2                  | 16A Double lever  | Supply<br>Install | ea<br>ea | 7<br>7   |        |
| 3.3.3                  | 360 deg, IP20 Passive infra red vacancy/occupancy sensor switch with quick connection, override switch with mobile or remote control configuration                                | Supply<br>Install | ea<br>ea | 20<br>20 |        |
| <b>CARRIED FORWARD</b> |   |                   |          |          |        |

## SECTION 2: BACKUP GENERATOR INSTALLATION



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## DORDRECHT CORRECTIONAL CENTRE

## REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT

TENDER NUMBER:

| ITEM NO                | DESCRIPTION   | UNIT              | QTY      | RATE         | AMOUNT |
|------------------------|---|-------------------|----------|--------------|--------|
| <b>BROUGHT FORWARD</b> |   |                   |          |              |        |
| <b>3.4</b>             | <b><u>Draw Boxes</u></b><br>Supply and Install the following pressed galvanized steel draw boxes, built into brickwork, cast into concrete or built into dry wall.  |                   |          |              |        |
| 3.4.1                  | 100mm x 100mm x 50mm deep   | Supply<br>Install | ea<br>ea | 50<br>50     |        |
| 3.4.2                  | 100mm x 50mm x 50mm deep  | Supply<br>Install | ea<br>ea | 40<br>40     |        |
| 3.4.3                  | 150mm x 150mm x 75mm deep   | Supply<br>Install | ea<br>ea | 20<br>20     |        |
| 3.4.4                  | 75mm diameter   | Supply<br>Install | ea<br>ea | 0<br>0       |        |
| 3.4.5                  | Boxes for recessed light in Slab ceiling  | Supply<br>Install | ea<br>ea | 13<br>13     |        |
| 3.4.6                  | Expansion Joint Box   | Supply<br>Install | ea<br>ea | 10<br>10     |        |
| <b>3.5</b>             | <b><u>Conduit and Accessories</u></b><br>Supply and Install the following conduit cast into concrete or screed, chased into concrete or brickwall, and surface mounted for electrical, telephone and data installation, including couplings, bushes, locknuts, cutting bending, fixing draw boxes etc in accordance with the specifications |                   |          |              |        |
| 3.5.1                  | 20mm dia PVC Conduit-Electrical   | Supply<br>Install | m<br>m   | 500<br>500   |        |
| 3.5.2                  | 25mm dia Galvanised - Electrical  | Supply<br>Install | m<br>m   | 100<br>100   |        |
| 3.5.3                  | 25mm dia PVC  | Supply<br>Install | m<br>m   | 1000<br>1000 |        |
| 3.5.4                  | 20mm dia Galvanized - Electrical  | Supply<br>Install | m<br>m   | 300<br>300   |        |
| 3.5.5                  | 75mm dia PVC - 90° bend   | Supply<br>Install | ea<br>ea | 400<br>400   |        |
| 3.5.6                  | 20mm Flexible conduit - PVC   | Supply<br>Install | m<br>m   | 300<br>300   |        |
| 3.5.7                  | 20mm Flexible conduit connections   | Supply<br>Install | ea<br>ea | 150<br>150   |        |
| <b>CARRIED FORWARD</b> |   |                   |          |              |        |

## SECTION 2: BACKUP GENERATOR INSTALLATION



## DORDRECHT CORRECTIONAL CENTRE

## REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT

TENDER NUMBER:

| ITEM NO                | DESCRIPTION  | UNIT              | QTY    | RATE         | AMOUNT |
|------------------------|--|-------------------|--------|--------------|--------|
| <b>BROUGHT FORWARD</b> |  |                   |        |              |        |
| <b>3.6</b>             | <b><u>PVC Insulated Wire</u></b><br>Supply and Install the following 600/1000V grade PVC insulated wire into conduit, trunking and power skirting  |                   |        |              |        |
| 3.6.1                  | 2.5mm <sup>2</sup>   | Supply<br>Install | m<br>m | 1500<br>1500 |        |
| 3.6.2                  | 4mm <sup>2</sup>   | Supply<br>Install | m<br>m | 750<br>750   |        |
| 3.6.3                  | 6mm <sup>2</sup>   | Supply<br>Install | m<br>m | 500<br>500   |        |
| <b>3.7</b>             | <b><u>Earth Wire in Conduit</u></b><br>Supply and install the following bare stranded earth wire in conduit, trunking and power skirting   |                   |        |              |        |
| 3.7.1                  | 2.5mm <sup>2</sup>   | Supply<br>Install | m<br>m | 1500<br>1500 |        |
| 3.7.2                  | 4mm <sup>2</sup>   | Supply<br>Install | m<br>m | 750<br>750   |        |
| 3.7.3                  | 2.5mm <sup>2</sup> - Green/Yellow insulated  | Supply<br>Install | m<br>m | 500<br>500   |        |
| <b>3.8</b>             | <b><u>Draw Wire</u></b><br>Supply and Install draw wire in conduits for the telephone and data installation  |                   |        |              |        |
| 3.8.1                  | Draw Wire  | Supply<br>Install | m<br>m | 250<br>250   |        |
| <b>3.9</b>             | <b><u>Low Voltage Cables</u></b><br>600/1000V grade PVC/PVC/SWA/PVC stranded copper conductor cable (termination and earth conductors elsewhere measured) Cable laid in trenching or trunking (excavations elsewhere measured) |                   |        |              |        |
| 3.9.1                  | 6mm <sup>2</sup> x 4-core  | Supply<br>Install | m<br>m | 30<br>30     |        |
| 3.9.2                  | 10.0mm <sup>2</sup> x 4-core   | Supply<br>Install | m<br>m | 40<br>40     |        |
| 3.9.3                  | 16mm <sup>2</sup> x 4-core   | Supply<br>Install | m<br>m | 40<br>40     |        |
| 3.9.4                  | 50mm <sup>2</sup> x 4-core   | Supply<br>Install | m<br>m | 40<br>40     |        |
| 3.9.5                  | 70mm <sup>2</sup> x 4-core   | Supply<br>Install | m<br>m | 50<br>50     |        |
| <b>CARRIED FORWARD</b> |  |                   |        |              |        |

## SECTION 2: BACKUP GENERATOR INSTALLATION



public works  
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## DORDRECHT CORRECTIONAL CENTRE

## REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT

TENDER NUMBER:

| ITEM NO                | DESCRIPTION   | UNIT              | QTY      | RATE     | AMOUNT |
|------------------------|---|-------------------|----------|----------|--------|
| <b>BROUGHT FORWARD</b> |   |                   |          |          |        |
|                        | <u>Cable terminations complete including glands, shrouds, lugs, connections and commissioning</u>                       |                   |          |          |        |
| 3.9.6                  | 6mm <sup>2</sup> x 4-core   | Supply<br>Install | ea<br>ea | 2<br>2   |        |
| 3.9.7                  | 10.0mm <sup>2</sup> x 4-core  | Supply<br>Install | ea<br>ea | 2<br>2   |        |
| 3.9.8                  | 16mm <sup>2</sup> x 4-core  | Supply<br>Install | ea<br>ea | 2<br>2   |        |
| 3.9.9                  | 50mm <sup>2</sup> x 4-core  | Supply<br>Install | ea<br>ea | 2<br>2   |        |
| 3.9.10                 | 70mm <sup>2</sup> to 95mm <sup>2</sup> x 4-core   | Supply<br>Install | ea<br>ea | 4<br>4   |        |
| <b>3.10</b>            | <b><u>SLEEVES</u></b>   |                   |          |          |        |
| 3.10.1                 | 110mm dia   | Supply<br>Install | m<br>m   | 80<br>80 |        |
| 3.10.2                 | 75mm dia  | Supply<br>Install | m<br>m   | 50<br>50 |        |
| 3.10.3                 | 50mm dia  | Supply<br>Install | m<br>m   | 40<br>40 |        |
| 3.10.4                 | 32mm dia  | Supply<br>Install | m<br>m   | 30<br>30 |        |
|                        | <u>Bare Stranded Copper Wire Strapped to Cables (terminations elsewhere measured)</u>                                   |                   |          |          |        |
| 3.10.5                 | 4,0mm <sup>2</sup>  | Supply<br>Install | m<br>m   | 30<br>30 |        |
| 3.10.6                 | 6,0mm <sup>2</sup>  | Supply<br>Install | m<br>m   | 40<br>40 |        |
| 3.10.7                 | 10,0mm <sup>2</sup>   | Supply<br>Install | m<br>m   | 40<br>40 |        |
| 3.10.8                 | 25,0mm <sup>2</sup>   | Supply<br>Install | m<br>m   | 40<br>40 |        |
| 3.10.9                 | 50,0mm <sup>2</sup>   | Supply<br>Install | m<br>m   | 50<br>50 |        |
|                        | <u>Bare Stranded Copper Wire Terminations complete including drilling, bolting, lugs, connections and commissioning</u> |                   |          |          |        |
| <b>CARRIED FORWARD</b> |   |                   |          |          |        |



## SECTION 2: BACKUP GENERATOR INSTALLATION



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## DORDRECHT CORRECTIONAL CENTRE

## REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT

## TENDER NUMBER:

| ITEM NO                | DESCRIPTION   | UNIT              | QTY      | RATE   | AMOUNT |
|------------------------|---|-------------------|----------|--------|--------|
| <b>BROUGHT FORWARD</b> |   |                   |          |        |        |
| 3.10.10                | 4,0mm <sup>2</sup>  | Supply<br>Install | ea<br>ea | 2<br>2 |        |
| 3.10.11                | 6,0mm <sup>2</sup>  | Supply<br>Install | ea<br>ea | 2<br>2 |        |
| 3.10.12                | 10,0mm <sup>2</sup>   | Supply<br>Install | ea<br>ea | 2<br>2 |        |
| 3.10.13                | 25,0mm <sup>2</sup>   | Supply<br>Install | ea<br>ea | 2<br>2 |        |
| 3.10.14                | 50,0mm <sup>2</sup>   | Supply<br>Install | ea<br>ea | 4<br>4 |        |
| <b>3.11</b>            | <b><u>SERVICE EXISTING DISTRIBUTION BOARD/PANEL</u></b><br>Work includes replacing damaged or missing doors or cover plates, making neat existing wiring, replacing broken door locks, installing new labels, danger signs, updating legends and general cleaning |                   |          |        |        |
| 3.11.1                 | Pump Control Panel<br>Supply<br>Install   | ea<br>ea          | 1<br>1   |        |        |
| 3.11.2                 | Sub Distributiion Board<br>Supply<br>Install  | ea<br>ea          | 4<br>4   |        |        |
| 3.11.3                 | Main Distribution Board<br>Supply<br>Install  | ea<br>ea          | 1<br>1   |        |        |
| 3.11.4                 | Distribution Kiosk<br>Supply<br>Install   | ea<br>ea          | 1<br>1   |        |        |
|                        | <b><u>Spray paint existing distribution boards/panels</u></b><br>Work includes spray painting the DB faces plates and doors from white/grey to red  |                   |          |        |        |
| 3.11.5                 | Pump Control Panel<br>Supply<br>Install   | ea<br>ea          | 1<br>1   |        |        |
| 3.11.6                 | Sub Distribution Board<br>Supply<br>Install   | ea<br>ea          | 4<br>4   |        |        |
| 3.11.7                 | Main Distribution Board<br>Supply<br>Install  | ea<br>ea          | 1<br>1   |        |        |
| 3.11.8                 | Distribution Kiosk<br>Supply<br>Install   | ea<br>ea          | 1<br>1   |        |        |
| <b>3.12</b>            | <b><u>EXCAVATIONS</u></b><br>Excavate for cable sleeve trench including temporary support of sides, keeping excavations dry, backfilling and compacting to the Engineer's specifications  |                   |          |        |        |
| <b>CARRIED FORWARD</b> |   |                   |          |        |        |

## SECTION 2: BACKUP GENERATOR INSTALLATION



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## DORDRECHT CORRECTIONAL CENTRE

## REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT

TENDER NUMBER:

| ITEM NO                                     | DESCRIPTION  | UNIT           | QTY | RATE | AMOUNT |
|---|--|----------------|-----|------|--------|
| <b>BROUGHT FORWARD</b>                      |  |                |     |      |        |
| 3.12.1                                      | Pickable Soil  | m <sup>3</sup> | 50  |      |        |
| 3.12.2                                      | For Soft Rock  | m <sup>3</sup> | 30  |      |        |
| 3.12.3                                      | For Hard Rock  | m <sup>3</sup> | 30  |      |        |
| 3.12.4                                      | Bedding under and filling around cables comprising sifted sand   | m <sup>3</sup> | 100 |      |        |
|   | <b><u>Cable Markers</u></b>  |                |     |      |        |
| 3.12.5                                      | PVC warning marking tape   | m              | 400 |      |        |
| 3.12.6                                      | Concrete route markers   | ea             | 10  |      |        |
| <b>3.13</b>                                 | <b><u>PROVISIONAL AMOUNTS</u></b>  |                |     |      |        |
| 3.13.1                                      | <b><u>Provision for removing and later re-installing of the roof sheetings to access the electrical wiring on the roof space.</u></b>  |                |     |      |        |
| 3.13.2                                      | <b><u>Provision for Security Systems: Access Control Systems</u></b>   |                |     |      |        |
| 3.13.3                                      | <b><u>Provision for Telephone and Data Cabling</u></b>   |                |     |      |        |
| 3.13.4                                      | <b><u>Provision for Lightning Protection Systems</u></b>   |                |     |      |        |
| 3.13.5                                      | <b><u>Provision for Security Systems: PA System</u></b>  |                |     |      |        |
| <b>3.14</b>                                 | <b><u>As Built Drawings</u></b>  |                |     |      |        |
|   | Supply the engineer with as built drawings as specified  |                |     |      |        |
| 3.14.1                                      | As Built Drawings  | Set            | 1   |      |        |
| <b>3.15</b>                                 | <b><u>Testing and Commissioning</u></b>  |                |     |      |        |
| 3.15.1                                      | Comprehensive service and maintenance during the 12 months guarantee period including spare materials  | item           | Sum |      |        |
| 3.15.2                                      | Stripping of all Existing Electrical Installation (distribution boards, wires, etc.). This shall include the power isolation and moving the stripped material off site and handing over to the client. | item           | Sum |      |        |
| <b>CARRIED FORWARD TO SECTION 6 SUMMARY</b> |  |                |     |      |        |



DORDRECHT CORRECTIONAL CENTRE

REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT

TENDER NUMBER:


| ITEM NO                                     | DESCRIPTION   | UNIT | QTY | RATE | AMOUNT |
|---|---|------|-----|------|--------|
| 4,1   | <u>Kitchen equipment</u><br>Supply, Install in position as per drawings and commission and per suppliers specifications New Kitchen Equipment. The equipment shall be free of rust and or other defects and shall be cleaned after commissioning before handover. |      |     |      |        |
| 4.1.1                                       | Three plate flat solid top industrial stove without oven<br>Supply and Install  | No   | 1   |      |        |
| 4.1.2                                       | 4 Burner Open Gas Stove with Oven<br>Supply and Install   | No   | 1   |      |        |
| 4.1.3                                       | Band Saw<br>Supply and Install  | No   | 1   |      |        |
| 4.1.4                                       | 150 L steam jacketed boiling pot (Phutu pot)<br>Supply and Install  | No   | 2   |      |        |
| 4.1.5                                       | 2.5 kW Cold room blower, evaporator and condenser system with all necessary piping and pipe insulation<br>Supply and Install  | No   | 1   |      |        |
| 4.1.6                                       | 15 kg potato peeler c/w stainless steel stand<br>Supply and Install   | No   | 1   |      |        |
| 4.1.7                                       | 135 L oil jacketed boiling pot (Phutu pot)<br>Supply and Install  | No   | 1   |      |        |
| 4.1.8                                       | 1850 x 650 x 910 mm Double bowl pot sink with 150 mm splashback (stainless steel)<br>Supply and Install   | No   | 1   |      |        |
| 4,2   | <b>Review, provide information to the engineer regarding the condition of the existing equipment, service and repair equipment on approval of engineer</b>  |      |     |      |        |
| 4.2.1                                       | Extraction canopy   | No   | 1   |      |        |
| 4.2.2                                       | Combination steam oven  | No   | 1   |      |        |
| <b>CARRIED FORWARD TO SECTION 6 SUMMARY</b> |   |      |     |      |        |

**DORDRECHT CORRECTIONAL CENTRE  
REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT**


**TENDER NUMBER:**

| ITEM NO                                     | DESCRIPTION   | UNIT | QTY | RATE | AMOUNT |
|---|---|------|-----|------|--------|
| 5,1   | <u>HVAC equipment</u><br>Review, provide information to the engineer regarding the condition of the existing equipment, service and repair equipment on approval of engineer  |      |     |      |        |
| 5.1.1                                       | Supply, install and commission midwall split unit complete with:<br><br>Cooling capacity 3.5 kW (12000 BTU)<br>Wall mounted controller<br>Outdoor condenser<br>Indoor evaporator<br>Interconnecting refrigerant piping<br>Insulation<br>Galvanised steel cladding for refrigerant piping<br>Mounting bracket for outdoor unit<br>Electrical wiring<br>Condensate drain<br>Anti-vibration mounting | No   | 2   |      |        |
| 5.1.2                                       | Supply, install and commission midwall split unit complete with:<br><br>Cooling capacity 5 kW (18000 BTU)<br>Wall mounted controller<br>Outdoor condenser<br>Indoor evaporator<br>Interconnecting refrigerant piping<br>Insulation<br>Galvanised steel cladding for refrigerant piping<br>Mounting bracket for outdoor unit<br>Electrical wiring<br>Condensate drain<br>Anti-vibration mounting   | No   | 3   |      |        |
| 5.1.3                                       | Removal of old split unit airconditioners including:<br><br>Decommission<br>Touch ups to building where necessary<br>Removal of old equipment from the site   | No   | 5   |      |        |
| <b>CARRIED FORWARD TO SECTION 6 SUMMARY</b> |   |      |     |      |        |

## SECTION 6: FINAL SUMMARY

|  <b>public works &amp; infrastructure</b><br>Department: Public Works and Infrastructure<br>REPUBLIC OF SOUTH AFRICA |   |        | <b>DORDRECHT CORRECTIONAL CENTRE</b><br><b>REPAIR TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT</b> |  |
|---|---|--------|--|--|
| <b>TENDER NUMBER:</b>   |   |        | <b>SECTION 6 : FINAL SUMMARY</b>   |  |
| SECTION   |   | AMOUNT |  |  |
| 1   | PRELIMINARIES AND GENERAL   |        |  |  |
| 2   | BACKUP GENERATOR INSTALLATION   |        |  |  |
| 3   | ELECTRICAL INSTALATION  |        |  |  |
| 4   | KITCHEN EQUIPMENT   |        |  |  |
| 5   | HVAC INSTALLATION   |        |  |  |
|   | BUDGETARY ALLOWANCE FOR ELECTRICAL INSTALLATION REMEASURE                               |        |  |  |
| 7   | SUB TOTAL   |        |  |  |
|   |   |        |  |  |
|   | TOTAL TENDERED VALUE EXCLUDING. VAT.  |        |  |  |
|   | 15% VAT   |        |  |  |
|   | TOTAL TENDERED VALUE INCLUDING VAT. CARRIED TO FORM AND OFFER AND ACCEPTANCE DPW-07(EC) |        |  |  |

## SECTION 4: FINAL SUMMARY

|  <b>public works &amp; infrastructure</b><br>Department:<br>Public Works and Infrastructure<br>REPUBLIC OF SOUTH AFRICA |   | <b>DORDRECHT CORRECTIONAL CENTRE ELECTRICAL INSTALLATION</b><br><b>ELECTRICAL ENGINEERING SERVICES</b> |   |
|--|---|--|---|
| <b>TENDER NUMBER:</b>  |   |  |   |
| <b>SECTION 4 : FINAL SUMMARY</b>   |   |  |   |
| SECTION  |   | AMOUNT   |   |
| 1  | PRELIMINARIES AND GENERAL   | R  | - |
| 2  | BACKUP GENERATOR INSTALLATION   | R  | - |
| 3  | ELECTRICAL INSTALATION  | R  | - |
| 4  | BUDGETARY ALLOWANCE FOR REMEASURE   | R  | - |
| 5  | SUB TOTAL   | R  | - |
|  |   |  |   |
|  | TOTAL TENDERED VALUE EXCLUDING. VAT.  | R  | - |
|  | 15% VAT   | R  | - |
|  | TOTAL TENDERED VALUE INCLUDING VAT. CARRIED TO FORM AND OFFER AND ACCEPTANCE DPW-07(EC) | R  | - |

## **T2.2.1: Returnable Documents required for tender evaluation purposes**

## PA-11: BIDDER'S DISCLOSURE

### 1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

### 2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest <sup>(1)</sup> in the enterprise, employed by the state?

**YES / NO**

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

| Full Name | Identity Number | Name of State institution |
|-----------|-----------------|---------------------------|
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |

---

1() the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.



2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution?

**YES / NO**

2.2.1 If so, furnish particulars:

.....  
.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract?

**YES / NO**

2.3.1 If so, furnish particulars:

.....  
.....

### **3 DECLARATION**

I, the undersigned, (name).....  
in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor.

- However, communication between partners in a joint venture or consortium<sup>2</sup> will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
  - 3.5 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
  - 3.6 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
  - 3.7 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....  
Signature

.....  
Date

.....  
Position

.....  
Name of bidder

---

<sup>2</sup> Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.



**This form has been aligned with SBD4**

## PA- 29: CERTIFICATION OF INDEPENDENT BID DETERMINATION

|                       |  |                      |  |
|-----------------------|--|----------------------|--|
| <b>Project title:</b> | DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT |                      |  |
| <b>Bid no:</b>        | MTH59/2022   | <b>Reference no:</b> |  |

### INTRODUCTION

1. This PA-29 [Certificate of Independent Bid Determination] must form part of all bids<sup>1</sup> invited.
2. Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).<sup>2</sup> Collusive bidding is a *per se* prohibition meaning that it cannot be justified under any grounds.
3. Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:
  - a. disregard the bid of any bidder if that bidder, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such system.
  - b. cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.
4. This form (PA-29) serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
5. In order to give effect to the above, the attached Certificate of Bid Determination (PA-29) must be completed and submitted with the bid:

---

<sup>1</sup> Includes price quotations, advertised competitive bids, limited bids and proposals.



## PA 29: Certification of Independent Bid Determination

<sup>2</sup> Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

### CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

---

**(Bid Number and Description)**

in response to the invitation for the bid made by:

---

**(Name of Institution)**

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: \_\_\_\_\_ that:

**(Name of Bidder)**

1. I have read and I understand the contents of this Certificate.
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect.
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder.
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign the bid, on behalf of the bidder.
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
  - (a) has been requested to submit a bid in response to this bid invitation;
  - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
  - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder.



PA 29: Certification of Independent Bid Determination

6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium<sup>3</sup> will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
  - (a) prices;
  - (b) geographical area where product or service will be rendered (market allocation)
  - (c) methods, factors or formulas used to calculate prices;
  - (d) the intention or decision to submit or not to submit, a bid;
  - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
  - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

|                |           |      |          |
|----------------|-----------|------|----------|
|                |           |      |          |
| Name of Bidder | Signature | Date | Position |



## PA 29: Certification of Independent Bid Determination

<sup>3</sup> **Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.**

## PA-15.1: RESOLUTION OF BOARD OF DIRECTORS

**RESOLUTION** of a meeting of the Board of \*Directors / Members / Partners of:

\_\_\_\_\_ (Legally correct full name and registration number, if applicable, of the Enterprise)

Held at \_\_\_\_\_ (place)

on \_\_\_\_\_ (date)

**RESOLVED that:**

1. The Enterprise submits a Bid / Tender to the Department of Public Works in respect of the following project:

\_\_\_\_\_ (Project description as per Bid / Tender Document)

Bid / Tender Number: \_\_\_\_\_ (Bid / Tender Number as per Bid / Tender Document)

2. \*Mr/Mrs/Ms: \_\_\_\_\_

in \*his/her Capacity as: \_\_\_\_\_ (Position in the Enterprise)

and who will sign as follows: \_\_\_\_\_

be, and is hereby, authorised to sign the Bid / Tender, and any and all other documents and/or correspondence in connection with and relating to the Bid / Tender, as well as to sign any Contract, and any and all documentation, resulting from the award of the Bid / Tender to the Enterprise mentioned above.

|    | Name | Capacity | Signature |
|----|------|----------|-----------|
| 1  |      |          |           |
| 2  |      |          |           |
| 3  |      |          |           |
| 4  |      |          |           |
| 5  |      |          |           |
| 6  |      |          |           |
| 7  |      |          |           |
| 8  |      |          |           |
| 9  |      |          |           |
| 10 |      |          |           |
| 11 |      |          |           |
| 12 |      |          |           |
| 13 |      |          |           |
| 14 |      |          |           |
| 15 |      |          |           |
| 16 |      |          |           |



|    |  |  |  |
|----|--|--|--|
| 17 |  |  |  |
| 18 |  |  |  |
| 19 |  |  |  |
| 20 |  |  |  |

The bidding enterprise hereby absolves the Department of Public Works from any liability whatsoever that may arise as a result of this document being signed.

**Note:**

1. \* Delete which is not applicable.
2. **NB:** This resolution must, where possible, be signed by all the Directors / Members / Partners of the Bidding Enterprise.
3. In the event that paragraph 2 cannot be complied with, the resolution must be signed by Directors / Members / Partners holding a majority of the shares / ownership of the Bidding Enterprise (attach proof of shareholding / ownership hereto).
4. Directors / Members / Partners of the Bidding Enterprise may alternatively appoint a person to sign this document on behalf of the Bidding Enterprise, which person must be so authorized by way of a duly completed power of attorney, signed by the Directors / Members / Partners holding a majority of the shares / ownership of the Bidding Enterprise (proof of shareholding / ownership and power of attorney are to be attached hereto).
5. Should the number of Directors / Members / Partners exceed the space available above, additional names and signatures must be supplied on a separate page.

**ENTERPRISE STAMP**

## PA-15.2: RESOLUTION OF BOARD OF DIRECTORS TO ENTER INTO CONSORTIA OR JOINT VENTURES

RESOLUTION of a meeting of the Board of \*Directors / Members / Partners of:

\_\_\_\_\_

\_\_\_\_\_

(Legally correct full name and registration number, if applicable, of the Enterprise)

Held at \_\_\_\_\_ (place)

on \_\_\_\_\_ (date)

### RESOLVED that:

1. The Enterprise submits a Bid /Tender, in consortium/Joint Venture with the following Enterprises:

\_\_\_\_\_

\_\_\_\_\_

(List all the legally correct full names and registration numbers, if applicable, of the Enterprises forming the Consortium/Joint Venture)

to the Department of Public Works in respect of the following project:

\_\_\_\_\_

\_\_\_\_\_

(Project description as per Bid /Tender Document)

Bid / Tender Number: \_\_\_\_\_ (Bid / Tender Number as per Bid / Tender Document)

2. \*Mr/Mrs/Ms: \_\_\_\_\_

in \*his/her Capacity as: \_\_\_\_\_ (Position in the Enterprise)

and who will sign as follows: \_\_\_\_\_

be, and is hereby, authorised to sign a consortium/joint venture agreement with the parties listed under item 1 above, and any and all other documents and/or correspondence in connection with and relating to the consortium/joint venture, in respect of the project described under item 1 above.

3. The Enterprise accepts joint and several liability with the parties listed under item 1 above for the due fulfilment of the obligations of the joint venture deriving from, and in any way connected with, the Contract to be entered into with the Department in respect of the project described under item 1 above.
4. The Enterprise chooses as its *domicilium citandi et executandi* for all purposes arising from this joint venture agreement and the Contract with the Department in respect of the project under item 1 above:

Physical address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ (code)

Postal Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (code)

Telephone number: \_\_\_\_\_

Fax number: \_\_\_\_\_

|    | Name | Capacity | Signature |
|----|------|----------|-----------|
| 1  |      |          |           |
| 2  |      |          |           |
| 3  |      |          |           |
| 4  |      |          |           |
| 5  |      |          |           |
| 6  |      |          |           |
| 7  |      |          |           |
| 8  |      |          |           |
| 9  |      |          |           |
| 10 |      |          |           |
| 11 |      |          |           |
| 12 |      |          |           |
| 13 |      |          |           |
| 14 |      |          |           |
| 15 |      |          |           |

*The bidding enterprise hereby absolves the Department of Public Works from any liability whatsoever that may arise as a result of this document being signed*

**Note:**

- \* Delete which is not applicable.*
- NB:** *This resolution must, where possible, be signed by all the Directors / Members / Partners of the Bidding Enterprise.*
- In the event that paragraph 2 cannot be complied with, the resolution must be signed by Directors / Members / Partners holding a majority of the shares / ownership of the Bidding Enterprise (attach proof of shareholding / ownership hereto).*
- Directors / Members / Partners of the Bidding Enterprise may alternatively appoint a person to sign this document on behalf of the Bidding Enterprise, which person must be so authorized by way of a duly completed power of attorney, signed by the Directors / Members / Partners holding a majority of the shares / ownership of the Bidding Enterprise (proof of shareholding / ownership and power of attorney are to be attached hereto).*
- Should the number of Directors / Members / Partners exceed the space available above, additional names and signatures must be supplied on a separate page.*

**ENTERPRISE STAMP**



## PA-15.3: SPECIAL RESOLUTION OF CONSORTIA OR JOINT VENTURES

**RESOLUTION** of a meeting of the duly authorised representatives of the following legal entities who have entered into a consortium/joint venture to jointly bid for the project mentioned below: *(legally correct full names and registration numbers, if applicable, of the Enterprises forming a Consortium/Joint Venture)*

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_
3. \_\_\_\_\_  
\_\_\_\_\_
4. \_\_\_\_\_  
\_\_\_\_\_
5. \_\_\_\_\_  
\_\_\_\_\_
6. \_\_\_\_\_  
\_\_\_\_\_
7. \_\_\_\_\_  
\_\_\_\_\_
8. \_\_\_\_\_  
\_\_\_\_\_

Held at \_\_\_\_\_ *(place)*

on \_\_\_\_\_ *(date)*

### RESOLVED that:

#### RESOLVED that:

- A. The above-mentioned Enterprises submit a Bid in Consortium/Joint Venture to the Department of Public Works in respect of the following project:

\_\_\_\_\_  
\_\_\_\_\_

*(Project description as per Bid /Tender Document)*

Bid / Tender Number: \_\_\_\_\_ *(Bid / Tender Number as per Bid /Tender Document)*

PA-15.3: Special Resolution of Consortia or Joint Ventures

B. \*Mr/Mrs/Ms: \_\_\_\_\_

in \*his/her Capacity as: \_\_\_\_\_ (Position in the Enterprise)

and who will sign as follows: \_\_\_\_\_

be, and is hereby, authorised to sign the Bid, and any and all other documents and/or correspondence in connection with and relating to the Bid, as well as to sign any Contract, and any and all documentation, resulting from the award of the Bid to the Enterprises in Consortium/Joint Venture mentioned above.

C. The Enterprises constituting the Consortium/Joint Venture, notwithstanding its composition, shall conduct all business under the name and style of:

\_\_\_\_\_

D. The Enterprises to the Consortium/Joint Venture accept joint and several liability for the due fulfilment of the obligations of the Consortium/Joint Venture deriving from, and in any way connected with, the Contract entered into with the Department in respect of the project described under item A above.

E. Any of the Enterprises to the Consortium/Joint Venture intending to terminate the consortium/joint venture agreement, for whatever reason, shall give the Department 30 days written notice of such intention. Notwithstanding such decision to terminate, the Enterprises shall remain jointly and severally liable to the Department for the due fulfilment of the obligations of the Consortium/Joint Venture as mentioned under item D above.

F. No Enterprise to the Consortium/Joint Venture shall, without the prior written consent of the other Enterprises to the Consortium/Joint Venture and of the Department, cede any of its rights or assign any of its obligations under the consortium/joint venture agreement in relation to the Contract with the Department referred to herein.

G. The Enterprises choose as the *domicilium citandi et executandi* of the Consortium/Joint Venture for all purposes arising from the consortium/joint venture agreement and the Contract with the Department in respect of the project under item A above:

Physical address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ (Postal code) \_\_\_\_\_

Postal Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ (Postal code) \_\_\_\_\_

Telephone number: \_\_\_\_\_

Fax number: \_\_\_\_\_

PA-15.3: Special Resolution of Consortia or Joint Ventures

|    | Name | Capacity | Signature |
|----|------|----------|-----------|
| 1  |      |          |           |
| 2  |      |          |           |
| 3  |      |          |           |
| 4  |      |          |           |
| 5  |      |          |           |
| 6  |      |          |           |
| 7  |      |          |           |
| 8  |      |          |           |
| 9  |      |          |           |
| 10 |      |          |           |
| 11 |      |          |           |
| 12 |      |          |           |
| 13 |      |          |           |
| 14 |      |          |           |
| 15 |      |          |           |

The bidding enterprise hereby absolves the Department of Public Works & Infrastructure from any liability whatsoever that may arise as a result of this document being signed.

**Note:**

1. \* Delete which is not applicable.
2. **NB:** This resolution must be signed by all the Duly Authorised Representatives of the Legal Entities to the consortium/joint venture submitting this tender, as named in item 2 of Resolution PA-15.2.
3. Should the number of the Duly Authorised Representatives of the Legal Entities joining forces in this tender exceed the space available above, additional names, capacity and signatures must be supplied on a separate page.
4. Resolution PA-15.2, duly completed and signed, from the separate Enterprises who participate in this consortium/joint venture, must be attached to this Special Resolution (PA-15.3).

## DPW-16 (EC): SITE INSPECTION MEETING CERTIFICATE

|                               |  |                      |  |
|-------------------------------|--|----------------------|--|
| <b>Project title:</b>         | <b><i>DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT</i></b> |                      |  |
| <b>Tender / Quotation no:</b> | <i>MTH59/2022</i>  | <b>Reference no:</b> |  |
| <b>Closing date:</b>          | <i>10 February 2023</i>  |                      |  |

This is to certify that I, \_\_\_\_\_ representing

\_\_\_\_\_ in the capacity of

\_\_\_\_\_ visited the site on:

I have made myself familiar with all local conditions likely to influence the work and the cost thereof. I further certify that I am satisfied with the description of the work and explanations given at the site inspection meeting and that I understand perfectly the work to be done, as specified and implied, in the execution of this contract.

|                  |           |      |
|------------------|-----------|------|
|                  |           |      |
| Name of Tenderer | Signature | Date |

|                            |           |      |
|----------------------------|-----------|------|
|                            |           |      |
| Name of DPW Representative | Signature | Date |



## PA16: PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

**NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017 AND THE AMENDED B-BBEE CODES.**

### 1. GENERAL CONDITIONS

1.1. The following preference point systems are applicable to all bids:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2. The value of this bid is estimated to Not Exceed R50 000 000 (all applicable taxes included) and therefore the...80/20.....system shall be applicable.

1.3. Preference points for this bid shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contribution.

1.3.1 The maximum points for this bid are allocated as follows:

|  | POINTS     |
|--|------------|
| <b>1.3.1.1 PRICE</b>                                     | 80         |
| <b>1.3.1.2 B-BBEE STATUS LEVEL OF CONTRIBUTION</b>       | 20         |
| <b>Total points for Price and B-BBEE must not exceed</b> | <b>100</b> |

1.4. Failure on the part of a bidder to fill in and/or to sign this form and submit a B-BBEE Verification Certificate from a Verification Agency accredited by the South African Accreditation System (SANAS) or an Accounting Officer as contemplated in the Close Corporation Act (CCA) together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

1.5. An Exempted Micro Enterprise (EME) is only required to obtain a sworn affidavit or a certificate issued by Companies and intellectual property Commission (CIPC) confirming their annual turnover of R10 Million or less and level of black ownership to claim points.

1.6. Qualifying Small Enterprise (QSE) is only required to obtain a sworn affidavit or a certificate issued by Companies and intellectual property Commission (CIPC) confirming their annual turnover of R10 Million or less and level of black ownership to claim points.

- 1.7 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.
- 1.8 CERTIFICATES ISSUED BY IRBA AND ACCOUNTING OFFICER HAVE BEEN DISCONTINUED; HOWEVER VALID CERTIFICATES ALREADY ISSUED BEFORE 01 JANUARY 2017 MAY BE USED UNTIL THEY PHASE OUT COMPLETELY BY DECEMBER 2017

## 2. DEFINITIONS

- (a) **“all applicable taxes”** includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies;
- (b) **“B-BBEE”** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (c) **“B-BBEE status level of contributor”** means the B-BBEE status received by a measured entity based on its overall performance using the relevant scorecard contained in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (d) **“bid”** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of services, works or goods, through price quotations, advertised competitive bidding processes or proposals;
- (e) **“Broad-Based Black Economic Empowerment Act”** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (f) **“comparative price”** means the price after the factors of a non-firm price and all unconditional discounts that can be utilized have been taken into consideration;
- (g) **“consortium or joint venture”** means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract;
- (h) **“contract”** means the agreement that results from the acceptance of a bid by an organ of state;
- (i) **“EME”** means an Exempted Micro Enterprise as defines by Codes of Good Practice under section 9 (1) of the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (j) **“Firm price”** means the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs or excise duty and any other duty, levy, or tax, which, in terms of the law or regulation, is binding on the contractor and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract;
- (k) **“functionality”** means the measurement according to predetermined norms, as set out in the bid documents, of a service or commodity that is designed to be practical and useful, working or operating, taking into account, among other factors, the quality, reliability, viability and durability of a service and the technical capacity and ability of a bidder;
- (l) **“non-firm prices”** means all prices other than “firm” prices;
- (m) **“person”** includes a juristic person;



- Ps = Points scored for comparative price of bid under consideration
- Pt = Comparative price of bid under consideration
- Pmin = Comparative price of lowest acceptable bid

## 5. Points awarded for B-BBEE Status Level of Contribution

5.1 In terms of Regulation 6(2) and /or 7(2), of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

| <b>B-BBEE Status Level of Contributor</b> | <b>Number of points (90/10 system)</b> | <b>Number of points (80/20 system)</b> |
|---|--|--|
| 1   | 10                                     | 20                                     |
| 2   | 9                                      | 18                                     |
| 3   | 6                                      | 14                                     |
| 4   | 5                                      | 12                                     |
| 5   | 4                                      | 8                                      |
| 6   | 3                                      | 6                                      |
| 7   | 2                                      | 4                                      |
| 8   | 1                                      | 2                                      |
| Non-compliant contributor                 | 0                                      | 0                                      |

- 5.2 A trust, consortium or joint venture, will qualify for points for their B-BBEE status level as a legal entity, provided that the entity submits their B-BBEE status level certificate.
- 5.3 A trust, consortium or joint venture will qualify for points for their B-BBEE status level as an unincorporated entity, provided that the entity submits their consolidated B-BBEE scorecard as if they were a group structure and that such a consolidated B-BBEE scorecard is prepared for every separate bid.
- 5.4 Tertiary institutions and public entities will be required to submit their B-BBEE status level certificates in terms of the specialized scorecard contained in the B-BBEE Codes of Good Practice.
- 5.5 A person awarded a contract may not sub-contract more than 25% of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned, unless the contract is sub-contracted to an EME that has the capability and ability to execute the sub-contract.

## 6. BID DECLARATION

6.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

Any reference to words "Bid" or Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

**7. B-BBEE STATUS LEVEL OF CONTRIBUTION CLAIMED IN TERMS OF PARAGRAPHS 1.3.1.2 AND 5.1**

7.1 B-BBEE Status Level of Contribution: ..... = .....(maximum of 10 or 20 points)

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 5.1 and must be substantiated by means of a B-BBEE certificate issued by a Verification Agency accredited by SANAS or Sworn Affidavit for EME's and QSE's.

**8 SUB-CONTRACTING (relates to 5.5)**

8.1 Will any portion of the contract be sub-contracted? YES / NO (delete which is not applicable)

8.1.1 If yes, indicate:

(i) what percentage of the contract will be subcontracted? .....%

(ii) the name of the sub-contractor? .....

(iii) the B-BBEE status level of the sub-contractor? .....

(iv) whether the sub-contractor is an EME/ a QSE YES / NO (delete which is not applicable)

| Designated Group: An EME or QSE which is at last 51% owned by:    | EME<br>√ | QSE<br>√ |
|---|----------|----------|
| Black people  |          |          |
| Black people who are youth  |          |          |
| Black people who are women  |          |          |
| Black people with disabilities                                    |          |          |
| Black people living in rural or underdeveloped areas or townships |          |          |
| Cooperative owned by black people                                 |          |          |
| Black people who are military veterans                            |          |          |
| <b>OR</b>   |          |          |
| Any EME   |          |          |
| Any QSE   |          |          |

**9 DECLARATION WITH REGARD TO COMPANY/FIRM**

9.1 Name of company/firm .....

9.2 VAT registration number .....

9.3 Company registration number .....

:

9.4 TYPE OF COMPANY/ FIRM

Any reference to words "Bid" or Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

- Partnership/Joint Venture / Consortium
- One person business/sole propriety
- Close corporation
- Company
- (Pty) Limited

[TICK APPLICABLE BOX]

9.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

.....

.....

9.6 COMPANY CLASSIFICATION

- Manufacturer
- Supplier
- Professional service provider
- Other service providers, e.g. transporter, etc.

[TICK APPLICABLE BOX]

9.7 Total number of years the company/firm has been in business?

.....

9.8 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contribution indicated in paragraph 7 of the foregoing certificate/ Sworn Affidavit, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

- (i) The information furnished is true and correct;
- (ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form.
- (iii) In the event of a contract being awarded as a result of points claimed as shown in paragraph 7, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- (iv) If the B-BBEE status level of contribution has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
  - (a) Disqualify the person from the bidding process;
  - (b) Recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
  - (c) Cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
  - (d) restrict the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, from obtaining business from any organ of state for a period not exceeding 10 years, after the audi alteram partem (hear the other side) rule has been applied; and
  - (e) forward the matter for criminal prosecution

**WITNESSES:**

1. ....

2. ....

.....

SIGNATURE(S) OF BIDDER(S)

DATE:..... ADDRESS:.....

.....

## DPW-09 (EC): PARTICULARS OF TENDERER'S PROJECTS

|                               |  |                         |                  |
|-------------------------------|--|-------------------------|------------------|
| <b>Project title:</b>         | <b><i>DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT</i></b> |                         |                  |
| <b>Tender / quotation no:</b> | MTH59/22   | <b>Closing date:</b>    | 10 February 2023 |
| <b>Advertising date:</b>      | 20 January 2023  | <b>Validity period:</b> | 84 days          |

### 1. PARTICULARS OF THE TENDERER'S CURRENT AND PREVIOUS COMMITMENTS

#### 1.1. Current projects

| Projects currently engaged in | Name of Employer or Representative of Employer | Contact tel. no. | Contract sum | Contractual commencement date | Contractual completion date | Current percentage progress |
|-------------------------------|--|------------------|--------------|-------------------------------|-----------------------------|-----------------------------|
| 1                             |  |                  |              |                               |                             |                             |
| 2                             |  |                  |              |                               |                             |                             |
| 3                             |  |                  |              |                               |                             |                             |
| 4                             |  |                  |              |                               |                             |                             |
| 5                             |  |                  |              |                               |                             |                             |
| 6                             |  |                  |              |                               |                             |                             |
| 7                             |  |                  |              |                               |                             |                             |
| 8                             |  |                  |              |                               |                             |                             |



Tender no: **MTH59/2022**

**1.2. Completed projects**

| Projects completed in the previous 5 (five) years | Name of Employer or Representative of Employer | Contact tel. no. | Contract sum | Contractual commencement date | Contractual completion date | Date of Certificate of Practical Completion |
|---|--|------------------|--------------|-------------------------------|-----------------------------|---|
| 1   |  |                  |              |                               |                             |   |
| 2   |  |                  |              |                               |                             |   |
| 3   |  |                  |              |                               |                             |   |
| 4   |  |                  |              |                               |                             |   |
| 5   |  |                  |              |                               |                             |   |
| 6   |  |                  |              |                               |                             |   |
| 7   |  |                  |              |                               |                             |   |
| 8   |  |                  |              |                               |                             |   |
| 9   |  |                  |              |                               |                             |   |

|                  |           |      |
|------------------|-----------|------|
|                  |           |      |
| Name of Tenderer | Signature | Date |

## PA-36: DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

This Standard Bidding Document (SBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017, the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

### 1. General Conditions

- 1.1. Preferential Procurement Regulations, 2017 (Regulation 8) make provision for the promotion of local production and content.
- 1.2. Regulation 8.(2) prescribes that in the case of designated sectors, organs of state must advertise such tenders with the specific bidding condition that only locally produced or manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for tenders referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - \frac{x}{y}] * 100$$

Where

- x is the imported content in Rand  
y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) on the date of advertisement of the bid as indicated in paragraph 3.1 below.

**The SABS approved technical specification number SATS 1286:2011 is accessible on [http://www.thedti.gov.za/industrial development/ip.jsp](http://www.thedti.gov.za/industrial%20development/ip.jsp) at no cost.**



**PA36: Declaration Certificate for Local Production and Content for Designated Sectors.**

(This form has been aligned with NT - SBD 6.2)

1.6. A bid may be disqualified if this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation;

**2. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:**

| <u>Description of services, works or goods</u> | <u>Stipulated minimum threshold</u> |
|--|-------------------------------------|
| electric cables                                | 90 %                                |
| Generator                                      | 90 %                                |
|  | %                                   |

**3.** Does any portion of the goods or services offered have any imported content?

(Tick applicable box)

|     |                          |    |                          |
|-----|--------------------------|----|--------------------------|
| YES | <input type="checkbox"/> | NO | <input type="checkbox"/> |
|-----|--------------------------|----|--------------------------|

3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency on the date of advertisement of the bid.

The relevant rates of exchange information is accessible on [www.resbank.co.za](http://www.resbank.co.za)

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

| <b>Currency</b> | <b>Rates of exchange</b> |
|-----------------|--------------------------|
| US Dollar       |                          |
| Pound Sterling  |                          |
| Euro            |                          |
| Yen             |                          |
| Other           |                          |

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

**4.** Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the AO/AA provide directives in this regard.

**LOCAL CONTENT DECLARATION**  
**(REFER TO ANNEX B OF SATS 1286:2011)**

**LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)**

**IN RESPECT OF BID NO. ....**

**ISSUED BY:** (Procurement Authority / Name of Institution): .....  
NB

- 1 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.
- 2 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on [http://www.thedti.gov.za/industrial\\_development/ip.jsp](http://www.thedti.gov.za/industrial_development/ip.jsp). Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, ..... (full names),  
do hereby declare, in my capacity as .....  
of .....(name of bidder entity), the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that:
  - (i) the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and
- (c) The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:

|  |   |
|--|---|
| Bid price, excluding VAT (y)                                   | R |
| Imported content (x), as calculated in terms of SATS 1286:2011 | R |

Any reference to words "Bid" or "Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer". Page 3 of 4



**PA36: Declaration Certificate for Local Production and Content for Designated Sectors.**

*(This form has been aligned with NT - SBD 6.2)*

|  |  |
|--|--|
| Stipulated minimum threshold for local content (paragraph 3 above) |  |
| Local content %, as calculated in terms of SATS 1286:2011          |  |

**If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above. The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declaration D and E.**

- (d) I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.
- (e) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

**SIGNATURE:** \_\_\_\_\_

**WITNESS No. 1** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**WITNESS No. 2** \_\_\_\_\_

**DATE:** \_\_\_\_\_



**Documents for Risk Assessment  
INSERT ORIGINAL / CERTIFIED BANK RATING  
HERE**





### **T2.2.3: Returnable Documents that will be incorporated into the contract**

# PA- 40: DECLARATION OF DESIGNATED GROUPS FOR PREFERENTIAL PROCUREMENT

Tender no: MTH59/2022

Name of Tenderer .....

EME<sup>1</sup>  QSE<sup>2</sup>  Non EME/QSE (tick applicable box)

1. LIST ALL PROPRIETORS, MEMBERS OR SHAREHOLDERS BY NAME, IDENTITY NUMBER, CITIZENSHIP AND DESIGNATED GROUPS.

| Name and Surname # | Identity/ Passport number and Citizenship## | Percentage owned | Black  | Indicate if youth  | Indicate if woman  | Indicate if person with disability                       | Indicate if living in Rural (R) / Under Developed Area (UD) / Township (T) / Urban (U).                      | Indicate if military veteran                             |
|--------------------|---|------------------|--|--|--|--|--|--|
| 1.                 |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 2.                 |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 3.                 |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 4.                 |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 5.                 |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 6.                 |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 7.                 |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 8.                 |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 9.                 |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 10.                |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 11.                |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 12.                |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |

# Where Owners are themselves a Company, Close Corporation, Partnership etc, identify the ownership of the Holding Company, together with Registration number  
## State date of South African citizenship obtained (not applicable to persons born in South Africa)

<sup>1</sup> EME: Exempted Micro Enterprise

<sup>2</sup> QSE: Qualifying Small Business Enterprise

**Tender no:**

**2. DECLARATION:**

**The undersigned, who warrants that he/she is duly authorized to do so on behalf of the Tenderer, hereby confirms that:**

- 1 The information and particulars contained in this Affidavit are true and correct in all respects;
- 2 The Broad-based Black Economic Empowerment Act, 2003 (Act 53 of 2003), Preferential Procurement Policy Framework Act, 2000 (Act 5 of 2000), the Preferential Procurement Regulations, 2017, National Small Business Act 102 of 1996 as amended and all documents pertaining to this Tender were studied and understood and that the above form was completed according to the definitions and information contained in said documents;
- 3 The Tenderer understands that any intentional misrepresentation or fraudulent information provided herein shall disqualify the Tenderer's offer herein, as well as any other tender offer(s) of the Tenderer simultaneously being evaluated, or will entitle the Employer to cancel any Contract resulting from the Tenderer's offer herein;
- 4 The Tenderer accepts that the Employer may exercise any other remedy it may have in law and in the Contract, including a claim for damages for having to accept a less favourable tender as a result of any such disqualification due to misrepresentation or fraudulent information provided herein;
- 5 Any further documentary proof required by the Employer regarding the information provided herein, will be submitted to the Employer within the time period as may be set by the latter;

**Signed by the Tenderer**

|                               |                  |             |
|-------------------------------|------------------|-------------|
|                               |                  |             |
| <b>Name of representative</b> | <b>Signature</b> | <b>Date</b> |

## DPW-21 (EC): RECORD OF ADDENDA TO TENDER DOCUMENTS

|                       |   |                      |  |
|-----------------------|---|----------------------|--|
| <b>Project title:</b> | <b>DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT</b> |                      |  |
| <b>Tender no:</b>     | <i>MTH59/2022</i>   | <b>Reference no:</b> |  |

1. I / We confirm that the following communications received from the Department of Public Works and Infrastructure before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer: *(Attach additional pages if more space is required)*

|     | <b>Date</b> | <b>Title or Details</b> |
|-----|-------------|-------------------------|
| 1.  |             |                         |
| 2.  |             |                         |
| 3.  |             |                         |
| 4.  |             |                         |
| 5.  |             |                         |
| 6.  |             |                         |
| 7.  |             |                         |
| 8.  |             |                         |
| 9.  |             |                         |
| 10. |             |                         |
| 11. |             |                         |
| 12. |             |                         |
| 13. |             |                         |

|                         |                  |             |
|-------------------------|------------------|-------------|
|                         |                  |             |
| <b>Name of Tenderer</b> | <b>Signature</b> | <b>Date</b> |

2. I / We confirm that no communications were received from the Department of Public Works and Infrastructure before the submission of this tender offer, amending the tender documents.

|                         |                  |             |
|-------------------------|------------------|-------------|
|                         |                  |             |
| <b>Name of Tenderer</b> | <b>Signature</b> | <b>Date</b> |



## DPW-15 (EC): SCHEDULE OF PROPOSED SUBCONTRACTORS

|                       |   |                      |  |
|-----------------------|---|----------------------|--|
| <b>Project title:</b> | <b>DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE<br/>DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY<br/>INSTALLATION AND EQUIPMENT</b> |                      |  |
| <b>Tender no:</b>     | <i>MTH59/2022</i>   | <b>Reference no:</b> |  |

We notify you that it is our intention to employ the following Subcontractors for work in this contract.

We confirm that all subcontractors who are contracted to construct a house are registered as home builders with the National Home Builders Registration Council.

|          | <b>Name and address of proposed Subcontractor</b> | <b>Nature and extent of work</b> | <b>Previous experience with Subcontractor</b> |
|----------|---|----------------------------------|---|
| <b>1</b> |   |                                  |   |
| <b>2</b> |   |                                  |   |
| <b>3</b> |   |                                  |   |
| <b>4</b> |   |                                  |   |
| <b>5</b> |   |                                  |   |

|                               |                  |                 |             |
|-------------------------------|------------------|-----------------|-------------|
|                               |                  |                 |             |
| <b>Name of representative</b> | <b>Signature</b> | <b>Capacity</b> | <b>Date</b> |

|                              |  |
|------------------------------|--|
| <b>Name of organisation:</b> |  |
|------------------------------|--|

## DPW-22 (EC): PARTICULARS OF ELECTRICAL CONTRACTOR

|                       |  |                      |  |
|-----------------------|--|----------------------|--|
| <b>Project title:</b> | <b><i>DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT</i></b> |                      |  |
| <b>Tender no:</b>     | MTH59/2022   | <b>Reference no:</b> |  |

|  |  |
|--|--|
| <b>Name of Electrical Contractor:</b>  |  |
| <b>Address:</b>  |  |
| <b>Electrical Contractor registration number at the Department of Labour</b> |  |

|                  |           |      |
|------------------|-----------|------|
|                  |           |      |
| Name of Tenderer | Signature | Date |

## DPW-23 (EC): SCHEDULE FOR IMPORTED MATERIALS AND EQUIPMENT

|                       |  |                      |  |
|-----------------------|--|----------------------|--|
| <b>Project title:</b> | <b><i>DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT</i></b> |                      |  |
| <b>Tender no:</b>     | <i>MTH29/2022</i>  | <b>Reference no:</b> |  |

This schedule should be completed by the tenderer. *(Attach additional pages if more space is required)*

| Item | Material / Equipment | Rand (R) (Excluding VAT) |
|------|----------------------|--------------------------|
| 1.   |                      | R                        |
| 2.   |                      | R                        |
| 3.   |                      | R                        |
| 4.   |                      | R                        |
| 5.   |                      | R                        |
| 6.   |                      | R                        |

**The Contractor shall list imported items, materials and/or equipment which shall be excluded from the Contract Price Adjustment Provisions (if applicable) and shall be adjusted in terms of currency fluctuations only.** Copies of the supplier's quotations for the items, materials or equipment (provided that such costs shall not be higher than the relevant contract rate as listed above) should be lodged with the Principal Agent / Engineer of the Department of Public Works and Infrastructure within 60 (sixty) days from the date of acceptance of the tender. No adjustment of the local VAT amount, nor the contractor's profit, discount, mark-up, handling costs, etc. shall be allowed.

These net amounts will be adjusted as follows:

**FORMULA:**

The net amount to be added to or deducted from the contract sum:

$$A = V \left( \frac{Z}{Y} - 1 \right)$$

A = the amount (R) of adjustment

V = the net amount (supplier's quotation) (R) of the imported item

Y = exchange rate at the closing date of tender submission

Z = exchange rate on the date of payment.

|                  |           |      |
|------------------|-----------|------|
|                  |           |      |
| Name of Tenderer | Signature | Date |

## **T2.2.4: Returnable Documents: Other Documents that will be incorporated into the contract**



DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE  
DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT  
TENDER NO. MTH59/2022

**INSERT ORIGINAL TAX CLEARANCE CERTIFICATE HERE**

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE  
DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT  
TENDER NO. MTH59/2022

**INSERT CERTIFIED COPY OF B-BBEE CERTIFICATE HERE**

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE  
DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT  
TENDER NO. MTH59/2022

**INSERT ORIGINAL / CERTIFIED 'LETTER OF GOOD  
STANDING' WITH THE COMPENSATION COMMISSIONER  
HERE**

## **T2.2.5      ADDITIONAL INFORMATION REQUIRED FOR TENDER EVALUATION PURPOSES**

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE  
DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT  
TENDER NO. MTH59/2022

**ORIGINAL CERTIFIED COMPANY DOCUMENTATION**

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE  
DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT  
TENDER NO. MTH59/2022

**CERTIFIED COPIES OF ID(S) OF DIRECTORS / SOLE  
PROPRIETTOR / MEMBERS / TRUSTEES**



public works  
& infrastructure

---

Department:  
Public Works and Infrastructure  
**REPUBLIC OF SOUTH AFRICA**

**REFERENCE NO.**

**TENDER NO: MTH59/2022**

**DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL  
SUPPLY INSTALLATION AND EQUIPMENT  
(WCS 044256)**

**VOLUME 3  
CONTRACT**

**ISSUED BY:  
DEPARTMENT OF PUBLIC WORKS  
PRD II BUILDING  
SUTHERLAND STREET  
MTHATHA  
5100  
25270  
CONTACT PERSON:  
MS. ASIVE LOMNTU  
TEL: (047) 502 7030**

VOLUME 3  
CONTRACT

## **TABLE OF CONTENTS**

### **VOLUME 3 CONTRACT**

#### **PART C1 AGREEMENT AND CONTRACT DATA**

- C.1.2 Contract Data
- C.1.3 Form of Guarantee

#### **PART C2 PRICING DATA**

- C.2.1 Pricing Instructions
- C.2.2 Building Work / Specification

#### **PART C3 SCOPE OF WORK**

- C.3 Scope of Work

#### **PART C4 SITE INFORMATION**

- C.4 Site Information





## **PART C1: Agreement and Contract Data**

## **C1.2 Contract Data**

## **PA-10: GENERAL CONDITIONS OF CONTRACT (GCC)**

### **NOTES:**

The purpose of this document is to:

- (i) Draw special attention to certain general conditions applicable to government bids, contracts and orders; and
- (ii) To ensure that clients be familiar with regard to the rights and obligations of all parties involved in doing business with government.

In this document words in the singular also mean in the plural and vice versa and words in the masculine also mean in the feminine and neuter.

- The General Conditions of Contract will form part of all bid documents and may not be amended.
- Special Conditions of Contract (SCC) relevant to a specific bid should be compiled separately for every bid (if applicable) and will supplement the General Conditions of Contract. Whenever there is a conflict, the provisions in the SCC shall prevail.

### **TABLE OF CLAUSES**

1. **Definitions**
2. **Application**
3. **General**
4. **Standards**
5. **Use of contract documents and information; inspection**
6. **Patent rights**
7. **Performance security**
8. **Inspections, tests and analysis**
9. **Packing**
10. **Delivery and documents**
11. **Insurance**
12. **Transportation**
13. **Incidental services**
14. **Spare parts**
15. **Warranty**
16. **Payment**
17. **Prices**
18. **Contract amendments**
19. **Assignment**
20. **Subcontracts**
21. **Delays in the supplier's performance**
22. **Penalties**
23. **Termination for default**
24. **Dumping and countervailing duties**
25. **Force Majeure**
26. **Termination for insolvency**
27. **Settlement of disputes**
28. **Limitation of liability**
29. **Governing language**
30. **Applicable law**
31. **Notices**
32. **Taxes and duties**
33. **National Industrial Participation Programme (NIPP)**
34. **Prohibition of restrictive practices**

## PA-10: General Conditions of Contract (GCC)

### General Conditions of Contract

#### 1. Definitions

1. The following terms shall be interpreted as indicated:

- 1.1. **"Closing time"** means the date and hour specified in the bidding documents for the receipt of bids.
- 1.2. **"Contract"** means the written agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- 1.3. **"Contract price"** means the price payable to the supplier under the contract for the full and proper performance of his contractual obligations.
- 1.4. **"Corrupt practice"** means the offering, giving, receiving, or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution.
- 1.5. **"Countervailing duties"** are imposed in cases where an enterprise abroad is subsidized by its government and encouraged to market its products internationally.
- 1.6. **"Country of origin"** means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 1.7. **"Day"** means calendar day.
- 1.8. **"Delivery"** means delivery in compliance of the conditions of the contract or order.
- 1.9. **"Delivery ex stock"** means immediate delivery directly from stock actually on hand.
- 1.10. **"Delivery into consignees store or to his site"** means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the supplies are so delivered and a valid receipt is obtained.
- 1.11. **"Dumping"** occurs when a private enterprise abroad market its goods on own initiative in the RSA at lower prices than that of the country of origin and which have the potential to harm the local industries in the RSA.
- 1.12. **"Force majeure"** means an event beyond the control of the supplier and not involving the supplier's fault or negligence and not foreseeable. Such events may include, but is not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 1.13. **"Fraudulent practice"** means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the bidder of the benefits of free and open competition.
- 1.14. **"GCC"** means the General Conditions of Contract.

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- 1.15. **“Goods”** means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.
- 1.16. **“Imported content”** means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or his subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the factory in the Republic where the supplies covered by the bid will be manufactured.
- 1.17. **“Local content”** means that portion of the bidding price which is not included in the imported content provided that local manufacture does take place.
- 1.18. **“Manufacture”** means the production of products in a factory using labour, materials, components and machinery and includes other related value-adding activities.
- 1.19. **“Order”** means an official written order issued for the supply of goods or works or the rendering of a service.
- 1.20. **“Project site”** where applicable, means the place indicated in bidding documents.
- 1.21. **“Purchaser”** means the organization purchasing the goods.
- 1.22. **“Republic”** means the Republic of South Africa.
- 1.23. **“SCC”** means the Special Conditions of Contract.
- 1.24. **“Services”** means those functional services ancillary to the supply of the goods, such as transportation and any other incidental services, such as installation, commissioning, provision of technical assistance, training, catering, gardening, security, maintenance and other such obligations of the supplier covered under the contract.
- 1.25. **“Written” or “in writing”** means handwritten in ink or any form of electronic or mechanical writing.

### 2. Application

- 2.1. These general conditions are applicable to all bids, contracts and orders including bids for functional and professional services, sales, hiring, letting and the granting or acquiring of rights, but excluding immovable property, unless otherwise indicated in the bidding documents.
- 2.2. Where applicable, special conditions of contract are also laid down to cover specific supplies, services or works.
- 2.3. Where such special conditions of contract are in conflict with these general conditions, the special conditions shall apply.

### 3. General

- 3.1. Unless otherwise indicated in the bidding documents, the purchaser shall not be liable for any expense incurred in the preparation and submission of a bid. Where applicable a non-refundable fee for documents may be charged.
- 3.2. With certain exceptions, invitations to bid are only published in the Government Tender Bulletin. The Government Tender Bulletin may be obtained directly from the Government Printer, Private Bag X85, Pretoria 0001, or accessed electronically from [www.treasury.gov.za](http://www.treasury.gov.za)

### 4. Standards

- 4.1. The goods supplied shall conform to the standards mentioned in the bidding documents and specifications.

### 5. Use of contract documents and information; inspection.

- 5.1. The supplier shall not, without the purchaser's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or

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on behalf of the purchaser in connection therewith, to any person other than a person employed by the supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.

- 5.2. The supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC clause 5.1 except for purposes of performing the contract.
- 5.3. Any document, other than the contract itself mentioned in GCC clause 5.1 shall remain the property of the purchaser and shall be returned (all copies) to the purchaser on completion of the supplier's performance under the contract if so required by the purchaser.
- 5.4. The supplier shall permit the purchaser to inspect the supplier's records relating to the performance of the supplier and to have them audited by auditors appointed by the purchaser, if so required by the purchaser.

### 6. Patent rights

- 6.1. The supplier shall indemnify the purchaser against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the goods or any part thereof by the purchaser.

### 7. Performance security

- 7.1. Within thirty (30) days of receipt of the notification of contract award, the successful bidder shall furnish to the purchaser the performance security of the amount specified in SCC.
- 7.2. The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete his obligations under the contract.
- 7.3. The performance security shall be denominated in the currency of the contract, or in a freely convertible currency acceptable to the purchaser and shall be in one of the following forms:
  - (a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the purchaser's country or abroad, acceptable to the purchaser, in the form provided in the bidding documents or another form acceptable to the purchaser; or
  - (b) a cashier's or certified cheque
- 7.4. The performance security will be discharged by the purchaser and returned to the supplier not later than thirty (30) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, unless otherwise specified in SCC.

### 8. Inspections, tests and analyses

- 8.1. All pre-bidding testing will be for the account of the bidder.
- 8.2. If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the Department or an organization acting on behalf of the Department.
- 8.3. If there are no inspection requirements indicated in the bidding documents and no mention is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.
- 8.4. If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the supplies to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.

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- 8.5. Where the supplies or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such supplies or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.
- 8.6. Supplies and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.
- 8.7. Any contract supplies may on or after delivery be inspected, tested or analyzed and may be rejected if found not to comply with the requirements of the contract. Such rejected supplies shall be held at the cost and risk of the supplier who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with supplies which do comply with the requirements of the contract. Failing such removal the rejected supplies shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute supplies forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected supplies, purchase such supplies as may be necessary at the expense of the supplier.
- 8.8. The provisions of clauses 8.4 to 8.7 shall not prejudice the right of the purchaser to cancel the contract on account of a breach of the conditions thereof, or to act in terms of Clause 23 of GCC.

### 9. Packing

- 9.1. The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing, case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.
- 9.2. The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the purchaser.

### 10. Delivery and documents

- 10.1. Delivery of the goods shall be made by the supplier in accordance with the terms specified in the contract. The details of shipping and/or other documents to be furnished by the supplier are specified in SCC.
- 10.2. Documents to be submitted by the supplier are specified in SCC.

### 11. Insurance

- 11.1. The goods supplied under the contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the SCC.

### 12. Transportation

- 12.1. Should a price other than an all-inclusive delivered price be required, this shall be specified in the SCC.

### 13. Incidental services

- 13.1. The supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:
- (a) performance or supervision of on-site assembly and/or commissioning of the supplied goods;
  - (b) furnishing of tools required for assembly and/or maintenance of the supplied goods;
  - (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;



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- (d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the parties, provided that this service shall not relieve the supplier of any warranty obligations under this contract; and
- (e) training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.

13.2. Prices charged by the supplier for incidental services, if not included in the contract price for the goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier for similar services.

### 14. Spare parts

14.1. As specified in SCC, the supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the supplier:

- (a) such spare parts as the purchaser may elect to purchase from the supplier, provided that this election shall not relieve the supplier of any warranty obligations under the contract; and
- (b) in the event of termination of production of the spare parts:
  - (i) Advance notification to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements; and
  - (ii) following such termination, furnishing at no cost to the purchaser, the blueprints, drawings, and specifications of the spare parts, if requested.

### 15. Warranty

15.1. The supplier warrants that the goods supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that all goods supplied under this contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the purchaser's specifications) or from any act or omission of the supplier, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.

15.2. This warranty shall remain valid for twelve (12) months after the goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the contract, or for eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in SCC.

15.3. The purchaser shall promptly notify the supplier in writing of any claims arising under this warranty.

15.4. Upon receipt of such notice, the supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective goods or parts thereof, without costs to the purchaser.

15.5. If the supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under the contract.

### 16. Payment

16.1. The method and conditions of payment to be made to the supplier under this contract shall be specified in SCC.

16.2. The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfilment of other obligations stipulated in the contract.

16.3. Payments shall be made promptly by the purchaser, but in no case later than thirty (30) days after submission of an invoice or claim by the supplier.

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16.4. Payment will be made in Rand unless otherwise stipulated in SCC.

### 17. Prices

17.1. Prices charged by the supplier for goods delivered and services performed under the contract shall not vary from the prices quoted by the supplier in his bid, with the exception of any price adjustments authorized in SCC or in the purchaser's request for bid validity extension, as the case may be.

### 18. Contract amendments

18.1. No variation in or modification of the terms of the contract shall be made except by written amendment signed by the parties concerned.

### 19. Assignment

19.1. The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the purchaser's prior written consent.

### 20. Subcontracts

20.1. The supplier shall notify the purchaser in writing of all subcontracts awarded under this contracts if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the supplier from any liability or obligation under the contract.

### 21. Delays in the supplier's performance

21.1. Delivery of the goods and performance of services shall be made by the supplier in accordance with the time schedule prescribed by the purchaser in the contract.

21.2. If at any time during performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.

21.3. No provision in a contract shall be deemed to prohibit the obtaining of supplies or services from a national department, provincial department, or a local authority.

21.4. The right is reserved to procure outside of the contract small quantities or to have minor essential services executed if an emergency arises, the supplier's point of supply is not situated at or near the place where the supplies are required, or the supplier's services are not readily available.

21.5. Except as provided under GCC Clause 25, a delay by the supplier in the performance of its delivery obligations shall render the supplier liable to the imposition of penalties, pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 21.2 without the application of penalties.

21.6. Upon any delay beyond the delivery period in the case of a supplies contract, the purchaser shall, without cancelling the contract, be entitled to purchase supplies of a similar quality and up to the same quantity in substitution of the goods not supplied in conformity with the contract and to return any goods delivered later at the supplier's expense and risk, or to cancel the contract and buy such goods as may be required to complete the contract and without prejudice to his other rights, be entitled to claim damages from the supplier.

### 22. Penalties

22.1. Subject to GCC Clause 25, if the supplier fails to deliver any or all of the goods or to perform the services within the period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as a penalty, a sum calculated on the delivered price of the delayed goods or unperformed services using the current prime interest rate calculated for each day of the delay until actual delivery or performance. The purchaser may also consider termination of the contract pursuant to GCC Clause 23.

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### 23. Termination for default

- 23.1. The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate this contract in whole or in part:
- (a) if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2;
  - (b) if the Supplier fails to perform any other obligation(s) under the contract; or
  - (c) if the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.
- 23.2. In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner as it deems appropriate, goods, works or services similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar goods, works or services. However, the supplier shall continue performance of the contract to the extent not terminated.
- 23.3. Where the purchaser terminates the contract in whole or in part, the purchaser may decide to impose a restriction penalty on the supplier by prohibiting such supplier from doing business with the public sector for a period of not exceeding 10 years.
- 23.4. If a purchaser intends imposing a restriction on a supplier or any person with the supplier, the supplier will be allowed a time period of not more than fourteen (14) days to provide why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated fourteen (14) days the purchaser may regard the intended penalty as not objected against and may impose it on the supplier.
- 23.5. Any restriction on any person by the Accounting Officer/ Authority will, at the discretion of the Accounting Officer/ Authority, also be applicable to any enterprise or any partner, manager, director or other person who wholly or partly exercises or exercised or may exercise control over the enterprise of the first-mentioned person, and with which the first-mentioned person, is or was in the opinion of the Accounting Officer/ Authority actively associated.
- 23.6. If a restriction is imposed, the purchaser must, within five (5) working days of such imposition, furnish The National Treasury, with the following information:
- i) The name and address of the supplier and/or person restricted by the purchaser;
  - ii) The date of commencement of the restriction
  - iii) The period of the restriction; and
  - iv) The reasons for the restriction.
- These details will be loaded in the National Treasury's central database of suppliers or persons prohibited from doing business with the public sector.
- 23.7. If a court of law convicts a person of an offence as contemplated in sections 12 or 13 of the Prevention and Combating of Corrupt Activities Act No. 12 of 2004, the court may also rule that such person's name be endorsed on the Register for Tender Defaulters. When a person's name has been endorsed on the Register, the person will be prohibited from doing business with the public sector for a period not less than five years and not more than ten years. The National Treasury is empowered to determine the period of restriction and each case will be dealt with on its merits. According to section 32 of the Act the Register must be open to the public. The Register can be perused on the National Treasury website.

### 24. Anti-dumping and countervailing duties and rights

- 24.1. When, after the date of bid, provisional payments are required, or antidumping or countervailing duties are imposed, or the amount of a provisional payment or anti-dumping or countervailing right is increased in respect of any dumped or subsidized import, the State is not liable for any amount so required or imposed, or for the amount of any such increase. When, after the said date, such a provisional payment is no longer required or any such anti-dumping or countervailing right is abolished, or where the amount of such provisional payment or any such right is reduced, any such favourable difference shall on demand be paid forthwith by the contractor to the State or the State

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may deduct such amounts from moneys (if any) which may otherwise be due to the contractor in regard to supplies or services which he delivered or rendered, or is to deliver or render in terms of the contract or any other contract or any other amount which may be due to him.

### 25. Force Majeure

- 25.1. Notwithstanding the provisions of GCC Clauses 22 and 23, the supplier shall not be liable for forfeiture of its performance security, damages, or termination for default if and to the extent that his delay in performance or other failure to perform his obligations under the contract is the result of an event of force majeure.
- 25.2. If a force majeure situation arises, the supplier shall promptly notify the purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

### 26. Termination for insolvency

- 26.1. The purchaser may at any time terminate the contract by giving written notice to the supplier if the supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

### 27. Settlement of Disputes

- 27.1 If any dispute or difference of any kind whatsoever arises between the purchaser and the supplier in Connection with or arising out of the contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.
- 27.2 If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier may give notice to the other party of his intention to commence with mediation. No mediation in respect of this matter may be commenced unless such notice is given to the other party.
- 27.3 Should it not be possible to settle a dispute by means of mediation, it may be settled in a South African court of law.
- 27.4 Mediation proceedings shall be conducted in accordance with the rules of the procedure specified in the SCC.
- 27.5 Notwithstanding any reference to mediation and/or court proceedings herein,
- (a) the parties shall continue to perform their respective obligations under contract unless they Otherwise agree; and
  - (b) the purchaser shall pay the supplier any monies due the supplier.

### 28. Limitation of Liability

- 28.1 Except in cases of criminal negligence or willful misconduct, and in the case of infringement pursuant to Clause 6;
- (a) the supplier shall not be liable to the purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier to pay penalties and/or damages to the purchaser; and

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- (b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

**29. Governing language**

- 29.1. The contract shall be written in English. All correspondence and other documents pertaining to the contract that is exchanged by the parties shall also be written in English.

**30. Applicable law**

- 30.1. The contract shall be interpreted in accordance with South African laws, unless otherwise specified in SCC.

**31. Notices**

- 31.1. Every written acceptance of a bid shall be posted to the supplier concerned by registered or certified mail and any other notice to him shall be posted by ordinary mail to the address furnished in his bid or to the address notified later by him in writing and such posting shall be deemed to be proper service of such notice
- 31.2. The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting of such notice.

**32. Taxes and duties**

- 32.1. A foreign supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the purchaser's country.
- 32.2. A local supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted goods to the purchaser.
- 32.3. No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid the Department must be in possession of a tax clearance certificate, submitted by the bidder. This certificate must be an original issued by the South African

**33. National Industrial Participation Programme (NIPP)**

- 33.1 The NIP Programme administered by the Department of Trade and Industry shall be applicable to all contracts that are subject to the NIP obligation.

**34. Prohibition of Restrictive Practices**

- 34.1 In terms of section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, an agreement between, or concerted practice by, firms, or a decision by an association of firms, is prohibited if it is between parties in a horizontal relationship and if a bidder (s) is / are or a contractor(s) was / were involved in collusive bidding (or bid rigging).
- 34.2 If a bidder(s) or contractor(s), based on reasonable grounds or evidence obtained by the purchaser, has / have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and possible imposition of administrative penalties as contemplated in the Competition Act No. 89 of 1998.
- 34.3 If a bidder(s) or contractor(s), has / have been found guilty by the Competition Commission of the restrictive practice referred to above, the purchaser may, in addition and without prejudice to any other remedy provided for, invalidate the bid(s) for such item(s) offered, and / or terminate the contract in whole or part, and / or restrict the bidder(s) or contractor(s) from conducting business with the public sector for a period not exceeding ten (10) years and / or claim damages from the bidder(s) or contractor(s) concerned.

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| Name of Bidder | Signature | Date |
|----------------|-----------|------|
|----------------|-----------|------|

## DPW-05: (EC) CONTRACT DATA - (GCC (2010) 2<sup>nd</sup> EDITION: 2010)

|                       |  |
|-----------------------|--|
| <b>Project title:</b> | DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT |
|-----------------------|--|

|                               |            |                |        |                      |  |
|-------------------------------|------------|----------------|--------|----------------------|--|
| <b>Tender / Quotation no:</b> | MTH59/2022 | <b>WCS no:</b> | 044256 | <b>Reference no:</b> |  |
|-------------------------------|------------|----------------|--------|----------------------|--|

|  |   |
|--|---|
|  | <b>PART 1: DATA PROVIDED BY THE EMPLOYER</b>  |
|  | <b>CONDITIONS OF CONTRACT</b>   |
|  | <p>The General Conditions of Contract for Construction Works, Second Edition, 2010, published by the South African Institution of Civil Engineering, Private Bag X200, Halfway House, 1685, is applicable to this Contract and is obtainable from <a href="http://www.saice.org.za">www.saice.org.za</a></p> <p>Bidders to note that materials procured for the works should be from South African manufactures and suppliers. Imported materials shall only be considered under exceptional circumstances, based on compelling technical justifications, and subject to the approval by the NDPWI.</p> |

|  |  |
|--|--|
| <b>CONTRACT SPECIFIC DATA</b>  |  |
| The following contract specific data, referring to the General Conditions of Contract for Construction Works, Second Edition, 2010, are applicable to this Contract: |  |
| <b>CLAUSES</b>   | <b>COMPULSORY DATA</b>   |
| 1.1.1.8  | <p>Amend Clause 1.1.1.8 to include the word “rights” to read as follows:</p> <p>“Contract Data” means the specific data which, together with these General Conditions of Contract, collectively describe the rights, risks, liabilities and obligations of the contracting parties and the procedures for the administration of the Contract.</p>  |
| 1.1.1.13   | <p>Amend Clause 1.1.1.13 as follows, clarify when the defects liability period starts:</p> <p>“Defects Liability Period” means the period stated in the Contract Data, commencing on the date indicated on the Certificate of Completion or Certificates of Completion in the event of more than one Certificate of Completion is issued for different parts of the Works, during which the Contractor has both the right and the obligation to make good defects in the materials, Plant and workmanship covered by the Contract.</p> <p>Defects liability period is: <b>12 months</b>.</p>               |
| 1.1.1.14<br>&<br>5.14.7  | <p>The time for achieving Practical Completion of the whole of the works is: <b>9months</b> measured from the <u>Commencement</u> Date. The time thus stated includes special non-working days and the year-end break.</p> <p><b><i>or, if Practical Completion in portions is required,</i></b></p> <p>The times for achieving Practical Completion for the portions as set out in the Scope of Works are <i>mutatis mutandi</i>:</p> <p>For portion 1 within <b><i>insert description as may be applicable</i></b></p> <p>For portion 2 within <b><i>insert description as may be applicable</i></b></p> |

|  |   |
|--|---|
|  | For portion 3 within <i>insert description as may be applicable</i> |
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|----------|--|
|          | For portion 4 within <i>insert description as may be applicable</i><br><i>(followed by further portions as required)</i>   |
|          | The time for achieving Practical Completion of the whole of the Works is: <b>9 months, measured from the Commencement Date. The time thus stated includes special non-working days and the year-end break.</b>   |
| 1.1.1.15 | The name of the Employer is:<br><b>The Government of the Republic of South Africa in its Department of Public Works and Infrastructure.</b>  |
| 1.1.1.16 | The name of the Engineer is:<br><b>NDPWI</b>   |
| 1.1.1.26 | The Pricing Strategy is a: <b>Re-measurement Contract.</b>   |
| 1.1.1.31 | Not applicable to this Contract.   |
| 1.1.1.35 | Insert the definition of "Value of Works" as Clause 1.1.1.35:<br>"Value of Works" means the value of the Works certified by the Engineer as having been satisfactorily executed and shall include the value of the works done, the value of the materials and/or plant and Contract Price Adjustments. |
| 1.2.1.2  | <b>Employer's address:</b><br><br>Physical Address:<br><b>PRD II BUILDING</b><br><b>Umthatha</b><br><b>5099</b><br><br>Postal Address:<br><b>insert postal address</b><br><b>insert town</b><br><b>insert postal code</b><br><br>Facsimile: <b>5</b><br><br>Telephone: <b>insert tel no</b>            |
|          | <b>Engineer's address:</b><br><br>Physical Address:<br><b>insert physical address</b><br><b>insert town</b><br><b>insert code</b><br><br>Postal Address:<br><b>insert postal address</b><br><b>insert town</b><br><b>insert postal code</b><br><br>Facsimile: <b>insert fax no</b>                     |



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|       | Telephone: <i>insert tel no</i>  |
| 1.3.4 | Not applicable to this Contract. |

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| 1.3.5 | <p>Replace Clause 1.3.5 with the following provisions:</p> <p>(a) The Employer will become the owner of the information, documents, advice, recommendation and reports collected, furnished and/or compiled by the Contractor during the course of, and for the purposes of executing this Contract, all of which will be handed over to the Employer on request, but in any event on the termination and/or cancellation of this Contract for whatever reason. The Contractor relinquishes its retention or any other rights thereon to which it may be entitled.</p> <p>(b) The copyright of all documents, recommendations and reports compiled by the Contractor during the course of and for the purposes of finalizing the Works will vest in the Employer, and may not be reproduced or distributed or made available to any person outside the Employer's service, or to any institution in any way, without the prior written consent of the Employer. The Employer shall have the right to use such material for any other purpose without the approval of information or payment to the Contractor.</p> <p>(c) The copyright of all electronic aids, software programmes etc. prepared or developed in terms of the Contract shall vest in the Employer, who shall have the right to use such material for any other purpose without the approval of, information or payment to the Contractor.</p> <p>(d) In case of the Contractor providing documents, electronic aids, software programs or like material to the Employer, the development of which has not been at the expense of the Employer, copyright shall not vest in the Employer. The Contractor shall be required to indicate to which documents, electronic aids, software programs or like material this provision applies.</p> <p>(e) The Contractor hereby indemnifies the Employer against any action, claim, damages or legal cost that may be instituted against the Employer on the grounds of an alleged infringement of any copyright, patents or any other intellectual property right in connection with the Works outlined in this Contract.</p> <p>(f) All information, documents, recommendations, programs and reports collected or compiled must be regarded as confidential and may not be communicated or made available to any person outside the Employer's service and may not be published either during the currency of this Contract or after termination thereof without the prior written consent of the Employer.</p> |
| 3.1.3 | <p>1. The Engineer's authority to act and/or to execute functions or duties or to issue instructions are expressly <b>excluded</b> in respect of the following:</p> <p>(a) Appointment of nominated Sub-contractors – clause 4.4.3;</p> <p>(b) Granting of an extension of time and/or ruling on claims associated with claims for extension of time – clauses 5.12.3, 10.1.5;</p> <p>(c) Acceleration of the rate of progress and determination of the cost for payment of such acceleration – clause 5.12.4;</p> <p>(d) Rulings on claims and disputes – clauses 10.1.5, 10.2.3 and 10.3.3;</p> <p>(e) Suspension of the Works – clause 5.11.1;</p> <p>(f) Final Payment Certificate – clause 6.10.9;</p>  |

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|  | <p>(g) Issuing of <i>mora</i> notices to the Contractor – clauses 9.1.1, 9.1.2.1 and 9.2.1;</p> <p>(h) Cancellation of the contract between the Employer and Contractor – clauses 9.1.1, 9.1.2.1 and 9.2.1.</p> |
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|         | <p>2. In order to be legally binding and have legal bearing and consequence, any ruling in respect of the above matters (a) to (h) must be on an official document, signed and issued by the Employer to the Contractor.</p> <p>3. The Contractor must submit claims, demands, notices, notifications, updated particulars and reports in writing, as well as any other supporting documentation pertaining thereto, in respect of any of the above listed matters (a) to (h), to the Engineer within the time periods and in the format(s) as determined in the relevant clauses of the Conditions of Contract. Failing to deliver such to the Engineer timeous and in the correct format will invalidate any claim and the consequences of such failure will <i>mutatis mutandis</i> be as stated in clause 10.1.4.</p> <p>4. Clauses 6.10.9 and 10.1.5 shall be amended as follows to indicate the limitation on the Engineer's authority in respect thereof:</p> <p><b>Clause 6.10.9 – Amend to read as follows:</b></p> <p>Within 14 days of the date of final approval as stated in the Final Approval Certificate, the Contractor shall deliver to the Engineer a final statement claiming final settlement of all moneys due to him (save in respect of matters in dispute, in terms of Clauses 10.3 to 10.11, and not yet resolved). The Employer shall within 14 days issue to the Contractor a Final Payment Certificate the amount of which shall be paid to the Contractor within 28 days of the date of such certificate, after which no further payments shall be due to the Contractor (save in respect of matters in dispute, in terms of Clauses 10.3 to 10.11 and not yet resolved).</p> <p><b>Clause 10.1.5 – Amend to read as follows:</b></p> <p>Unless otherwise provided in the Contract, the Employer shall, within 28 days after the Contractor has delivered his claim in terms of Clause 10.1.1 as read with Clause 10.1.2, deliver to the Contractor his written and adequately reasoned ruling on the claim (referring specifically to this Clause). The amount thereof, if any, allowed by the Employer shall be included to the credit of the Contractor in the next payment certificate.</p> <p>5. Insert the following under 3.1.3:<br/>Provided that, notwithstanding any provisions to the contrary in the Contract, the Employer shall have the right to reverse and, should it deem it necessary, to amend any certificate, instruction, decision or valuation of the Engineer and to issue a new one, and such certificate instruction, decisions or valuations shall for the purposes of the Contract be deemed to be issued by the Engineer, provided that the Contractor shall be remunerated in the normal manner for work executed in good faith in terms of an instruction issued by the Engineer and which has subsequently been rescinded.</p> |
| 3.2.2.1 | <p>Amend Clause 3.2.2.1 to insert the word "Plant" to read as follows:</p> <p>Observe the execution of the Works, examine and test material, Plant and workmanship, and receive from the Contractor such information as he shall reasonably require.</p>  |
| 3.2.3.2 | <p>Amend Clause 3.2.3.2 to insert the word "Plant" to reads as follows:</p>   |

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|         | Notwithstanding any authority assigned to him in terms of Clauses 3.2.2 and 3.2.4, failure by the Engineer's Representative to disapprove of any work, workmanship, Plant or materials shall not prejudice the power of the Engineer thereafter to disapprove thereof and exercise any of his powers in terms of the Contract in respect of thereof. |
| 4.8.2.1 | Amend Clause 4.8.2.1 to include the word "person", as follows:<br><br>Makes available to the Employer, or to any such contractor, person or authority, any roads or ways for the maintenance of which the Contractor is responsible, or  |

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| 4.8.2.2 | Amend Clause 4.8.2.2 to include "Employer" and "contractors", as follows:<br><br>Provides any other facility or service of whatsoever nature to the Employer or to any of the said contractors, persons or authorities,  |
| 5.3.1   | The documentation required before commencement with Works execution are:<br><br>Health and Safety Plan (Refer to Clause 4.3)<br>Initial programme (Refer to Clause 5.6)<br>Security (Refer to Clause 6.2)<br>Insurance (Refer to Clause 8.6)<br><br><b><i>insert other requirements</i></b><br><b><i>insert other requirements</i></b><br><b><i>insert other requirements</i></b>                      |
| 5.3.2   | The time to submit the documentation required before commencement with Works execution is: <b>21 days.</b>   |
| 5.4.2   | The access to, and possession of, the Site referred to in Clause 5.4.1 shall be " <b>exclusive</b> " to the Contractor. In the event of access to, and possession of, the Site is not exclusive to the Contractor, the following limitations apply:<br><br>.   |
| 5.8.1   | The non-working days are: <b>Saturdays and Sundays</b><br><br>The special non-working days are:<br><b>(1) Public Holidays;</b><br><b>(2) The year-end break commencing on 16 December until the Sunday preceding the first working Monday of January of the succeeding year.</b>   |
| 5.9.1   | Amend Clause 5.9.1 as follows:<br><br>On the Commencement Date, the Engineer shall deliver to the Contractor three (3) copies, at no cost to the Contractor, of the drawings and any instructions required for the commencement of the Works. The cost of any additional copies of such drawings and/or instructions, as may be required by the Contractor, will be for the account of the Contractor. |
| 5.13.1  | The penalty for failing to complete the Works is: <b>R0.375 per R100 per day</b><br><br><b><i>or, if completion in portions is required,</i></b>   |

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|  | <p>The penalty for failing to complete portion 1 of the Works is: <b><i>Rinsert penalty amount per day.</i></b></p> <p>The penalty for failing to complete portion 2 of the Works is: <b><i>Rinsert penalty amount per day.</i></b></p> <p>The penalty for failing to complete portion 3 of the Works is: <b><i>Rinsert penalty amount per day.</i></b></p> <p>The penalty for failing to complete portion 4 of the Works is: <b><i>Rinsert penalty amount per day.</i></b></p> <p><i>Followed by further portions as required.</i></p> <p>The penalty for failing to complete the whole of the works is: <b><i>Rinsert penalty amount per day.</i></b></p> |
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| 5.14.1    | <p>Amend the second paragraph of Clause 5.14.1 as follows:</p> <p>When the Works are about to reach the said stage, the Contractor shall, in writing, request a Certificate of Practical Completion and the Engineer shall, within 14 days after receiving such request, issue to the Contractor a written list setting out the work to be completed to justify Practical Completion. Should the Engineer not issue such a list within the 14 days, the Contractor shall notify the Employer accordingly. Should the Employer not issue such a list within 7 days of receipt of such notice, Practical Completion shall be deemed to have been achieved on the 14<sup>th</sup> day after the contractor requested the Certificate of Practical Completion.</p> |
| 5.16.1    | Amend Clause 5.16.1 to delete the proviso in the third paragraph of this clause.   |
| 5.16.2    | <p>Amend Clause 5.16.2 as follows:</p> <p>No certificate other than the Final Approval Certificate referred to in Clause 5.16.1 shall be deemed to constitute approval of the Works or shall be taken as an admission of the due performance of the Contract or any part thereof, nor of the accuracy of any claim made by the Contractor, nor shall any other certificate exclude or prejudice any of the powers of the Engineer and/or the Employer.</p>   |
| 5.16.3    | The latent defect period for all works is: <b>5 years.</b>   |
| 6.2.1     | The type of security for the due performance of the Contract, as selected by the Contractor in the Contract Data, must be delivered to the Employer.   |
| 6.2.3     | <p>Amend Clause 6.2.3 as follows:</p> <p>If the Contractor has selected a performance guarantee as security, he shall ensure that it remains valid and enforceable as required in terms of the Contract.</p>   |
| 6.5.1.2.3 | <p>The percentage allowance to cover overhead charges is:</p> <p><b>33%, except on material cost where the percentage allowance is 10%.</b></p>  |
| 6.8.2     | <p>Contract Price Adjustment (CPA) will be applicable: <b>"No"</b>.</p> <p>If CPA is indicated as "Yes" above the value of payment certificates is to be adjusted by a Contract Price Adjustment Factor:</p> <p>The value of the certificates issued shall be adjusted in accordance with the Contract Price Adjustment Schedule with the following values:</p>  |

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|  | <p>The value of “x” is 0.15.</p> <p>The values of the coefficients are:<br/> a = 0.25. (Labour)<br/> b = 0.3 (Contractor’s equipment)<br/> c = 0.3 (Material)<br/> d = 0.15 (Fuel)</p> <p>The values of the coefficients for “Repair and Maintenance Project” (RAMP) contracts are:<br/> a = 0.35 (Labour)<br/> b = 0.20 (Contractor’s equipment)<br/> c = 0.35 (Material)<br/> d = 0.10 (Fuel)</p> |
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| 6.8.2    | <p>The urban area nearest the Site is <b>Queenstown</b>.<br/> <i>(Select urban area from Statistical News Release, P0141, Table 7.1.)</i></p> <p>The applicable industry for the Producer Price Index for materials is .<br/> <i>(Select the applicable industry from Statistical News Release, P01421, Table 11.)</i></p> <p>The area for the Producer Price Index for fuel is .<br/> <i>(Select the area from Statistical News Release, P01421, Table 12.)</i></p> <p>The base month is <b>December 2022</b>. <i>(The month prior to the closing of the tender.)</i></p>   |
| 6.8.3    | Price adjustments for variations in the costs of special materials are not allowed.  |
| 6.10.1.5 | The percentage advance on materials not yet built into the Permanent Works is: <b>85 %</b> .   |
| 6.10.3   | The limit of retention money is dependent on the security to be provided by the Contractor in terms of Clause 6.2.1.   |
| 6.10.5   | <p>Replace Clause 6.10.5 with the following:</p> <p><u>In respect of contracts up to R2 million and in respect of contracts above R2 million where the Contractor elects a security by means of a 10% retention</u>, 50% of the retention shall be released to the Contractor when the Engineer issues the Certificate of Completion in terms of clause 5.14.4. The remaining 50% of the retention shall be released in accordance with the provisions of the conditions of contract and will become due and payable when the Contractor becomes entitled, in terms of Clause 5.16.1, to receive the Final Approval Certificate.</p> <p><u>In respect of contracts above R2 million, where the Contractor elects a security by means of a cash deposit or fixed guarantee of 5% of the Contract Sum (excl. VAT) and a 5% retention of the Value of the Works (excl. VAT)</u>, the cash deposit or fixed guarantee, whichever is applicable, shall be refunded to the Contractor or return to the guarantor, respectively, when the Engineer issues the Certificate of Completion in terms of Clause 5.14.4. The 5% retention of the Value of the Works (excl. VAT) shall become due and payable when the Contractor becomes entitled, in terms of Clause 5.16.1, to receive the Final Approval Certificate.</p> <p><u>In respect of contracts above R2 million, where the Contractor elects a security by means of a cash deposit or a variable guarantee of 10% of the Contract Sum (excl. VAT)</u>, the cash deposit or the variable guarantee, whichever is applicable, will be reduced to 5% of the Value of the Works (excl. VAT) when the Engineer issues the Certificate of Completion in terms of Clause 5.14.4. The balance of the cash deposit shall</p> |

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|         | become due and payable or the variable guarantee shall expire when the Contractor becomes entitled in terms of Clause 5.16.1 to receive the Final Approval Certificate.   |
| 7.9.1   | <p>Insert the following at the end of Clause 7.9.1:</p> <p>Provided that, should the Contractor on demand not pay the amount of such costs to the Employer, such amount may be determined and deducted by the Employer from any amount due to or that may become due to the Contractor under this or any other previous or subsequent contract between the Contractor and the Employer.</p>                       |
| 8.2.2.1 | <p>Insert the following as a second paragraph to Clause 8.2.2.1:</p> <p>The Contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the Works and to rebuild, restore, replace and/or repair the Works, failing which the Employer may cause same to be done and recover the reasonable costs associated therewith from the Contractor.</p> |

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| 8.4.3     | <p>Insert a new Clause 8.4.3 as follows:</p> <p>The Contractor shall on receiving a written instruction from the Engineer immediately proceed at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the Works.</p>  |
| 8.6.1.1.1 | Amend Clause 8.6.1.1.1 to read as follows: Contract Sum plus 10%.  |
| 8.6.1.1.2 | The value of Plant and materials supplied by the Employer to be included in the insurance sum is: <b>Nil</b>   |
| 8.6.1.1.3 | The amount to cover professional fees for repairing damage and loss to be included in the insurance sum is: <b>Nil</b>   |
| 8.6.1.3   | <p>Amend Clause 8.6.1.3 to delete reference to limit of indemnity, to read as follows:</p> <p>Liability insurance that covers the Contractor against liability for the death of, or injury to any person, or loss of, or damage to any property (other than property while it is insured in terms of Clause 8.6.1.1) arising from or in the course of the fulfillment of the Contract, from the Commencement Date to the date of the end of the Defects Liability Period, if there is one, or otherwise to the issue of the Certificate of Completion.</p> |
| 8.6.1.5   | <p>1. <b>Public liability insurance</b> to be effect by the Contractor to a minimum value of:</p> <p><input checked="" type="checkbox"/> R5 million</p> <p><b>or</b></p> <p><input type="checkbox"/> <b>R insert amount in figures (and in words)</b></p> <p>With a deductible not exceeding 5% of each and every claim.</p> <p>2. <b>Support insurance</b> is to be effected by the Contractor to a minimum value of:</p> <p><b>R insert amount in figures (and in words)</b></p> <p>With a deductible not exceeding 5% of each and every claim.</p>      |
| 8.6.5     | Amend Clause 8.6.5 as follows:   |

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|       | Save as otherwise provided in the Contract Data, the insurances referred to in Clause 8.6.1 shall be effected with an insurance company registered in the Republic of South Africa. The Contractor shall submit the insurance policy to the Employer for approval, if so requested.   |
| 8.6.7 | Amend Clause 8.6.7 as follows:<br><br>If the Contractor fails to effect and keep in force any of the insurances referred to in Clause 8.6.1, the Employer may cancel the Contract in terms of Clause 9.2.   |
| 8.6.8 | Insert a new Clause 8.6.8 in provide for high risk insurance for projects executed on areas classified as "High Risk Areas".<br><br><b>HIGH RISK INSURANCE</b><br><br>In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply: |

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| 8.6.8 | <p>(1) <b>Damage to the Works</b><br/>The Contractor shall, from the date of Commencement of the Works until the date of the Certificate of Completion, bear the full risk of and hereby indemnifies and holds harmless the Employer against any damage to and/or destruction of the Works consequent upon a catastrophic ground movement as mentioned above. The Contractor shall take such precautions and security measures and other steps for the protection of the Works as he may deem necessary.</p> <p>When so instructed to do so by the Engineer, the Contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the Works and to rebuild, restore, replace and/or repair the Works, at the Contractor's own costs.</p> <p>(2) <b>Injury to Persons or Loss of or damage to Properties</b><br/>The Contractor shall be liable for and hereby indemnifies and holds harmless the Employer against any liability, loss, claim or proceeding arising during the Contract Period whether arising in common law or by Statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above.</p> <p>The Contractor shall be liable for and hereby indemnifies the Employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable or personal property or property contiguous to the Site, whether belonging to or under the control of the Employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the Contract Period.</p> <p>(3) It is the responsibility of the Contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in Clauses 8.6.8(1) and 8.6.8 (2) above. Without limiting his obligations in terms of the Contract, the Contractor shall, within 21 days of the Commencement Date and before Commencement of the Works, submit to the Employer proof of such insurance policy, if requested to do so.</p> <p>(4) The Employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the Contractor's default of his obligations as set out in Clauses 8.6.8 (1), 8.6.8 (2) and 8.6.8 (3). Provided that, should the Contractor on demand not pay the</p> |
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|       | amount of such costs to the Employer, such amount may be determined and deducted by the Employer from any amount due to or that may become due to the Contractor under this or any other existing or subsequent contract between the Contractor and the Employer.   |
| 9.1.4 | Amend Clause 9.1.4 as follows:<br><br>In the circumstances referred to in Clauses 9.1.1, 9.1.2 or 9.1.3 (provided that the circumstances in 9.1.3 is not due to the fault of the Contractor, his employees, contractors or agents), and whether or not the Contract is terminated under the provisions of this Clause, the Contractor shall be entitled to payment of any increased cost of or incidental to the execution of the Works which is specifically attributable to, or consequent upon the circumstances defined in Clauses 9.1.1, 9.1.2 or 9.1.3; |
| 9.1.5 | Amend Clause 9.1.5 as follows:<br><br>If the Contract is terminated on any account in terms of this Clause (provided that the circumstances in 9.1.3 is not due to the fault of the Contractor, his employees, contractors or agents) , the Contractor shall be paid by the Employer (insofar as such amounts or items have not already been covered by payments on account made to the Contractor) for all measured work executed prior to the date of termination, the amount (without retention), payable in terms of the Contract and, in addition:       |
| 9.1.6 | This Clause is not applicable to this Contract.   |

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| 9.2.1.3.8 | Insert a new Clause 9.2.1.3.8 as follows:<br><br>Has failed to effect and keep in force any of the insurances referred to in Clause 8.6.1,   |
| 9.2.4     | Insert a new Clause 9.2.4 as follows, to provide for unilateral termination by the Employer:<br><br>The Employer shall be entitled at any time to unilaterally terminate or cancel this Contract or any part thereof. Save for the following, the Contractor shall not be entitled to claim any other amounts whatsoever in respect of such termination or cancellation of this Contract. The Employer shall be obliged to pay the Contractor as damages and/or loss of profit the lesser of:<br><br>9.2.4.1 An amount not exceeding 10% of the Contract Sum;<br>9.2.4.2 10% of the value of incomplete work; or<br>9.2.4.3 The Contractor's actual damage or loss as determined by the Employer after receipt of evidence substantiating any such damage or loss. |
| 9.3.2.2   | Amend Clause 9.3.2.2 as follows to delete the proviso on lien:<br><br>The ownership of Plant and unused materials brought onto the Site by the Contractor, and for which the Employer has not made any payment, shall revert to the Contractor and he shall, with all reasonable dispatch, remove from the Site such Plant, materials and all Construction Equipment and Temporary Works.  |
| 9.3.3     | Insert the following at the end of Clause 9.3.3<br><br>After cancellation of the Contract by the Contractor, the Contractor, when requested by the Employer to do so, shall not be entitled to refuse to withdraw from the Works on the grounds of any lien or a right of retention or on the grounds of any other right whatsoever.   |
| 10.1.3.1  | Amend Clause 10.1.3.1 as follows to insert the word "Plant":   |



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|        | All facts and circumstances relating to the claims shall be investigated as and when they occur or arise. For this purpose, the Contractor shall deliver to the Engineer, records in a form approved by the Engineer, of all the facts and circumstances which the Contractor considers relevant and wishes to rely upon in support of his claims, including details of all Construction Equipment, labour, Plant and materials relevant to each claim. Such records shall be submitted promptly after the occurrence of the event giving rise to the claim. |
| 10.1.6 | Insert a new Clause 10.1.6 as follows:<br><br>If the Employer fails to give his ruling within the period referred to in Clause 10.1.5 he shall be deemed to have given a ruling dismissing the claim.  |
| 10.2.1 | Amend Clause 10.2.1 as follows:<br><br>In respect of any matter arising out of or in connection with the Contract, which is not required to be dealt with in terms of Clause 10.1 or which does not require the decision or ruling of the Employer, the Contractor or the Employer shall have the right to deliver a written dissatisfaction claim to the Engineer. This written claim shall be supported by particulars and substantiated.  |
| 10.2.2 | Amend Clause 10.2.2 as follows:<br><br>If, in respect of any matter arising out of or in connection with the Contract, which is not required to be dealt with in terms of Clause 10.1 or which does not require the decision or ruling of the Employer, the Contractor or the Employer fails to submit a claim within 28 days after the cause of dissatisfaction, he shall have no further right to raise any dissatisfaction on such matter.  |

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| 10.3.2                 | Amend Clause 10.3.2 as follows to replace “adjudication” with “court”:<br><br>If either party shall have given notice in compliance with Clause 10.3.1, the dispute shall be referred to court proceedings in terms of Clause 10.8, unless amicable settlement is contemplated.   |
| 10.3.3                 | Replace “Engineer” with “Employer”.   |
| 10.4.2                 | Amend Clause 10.4.2 as follows to provide for submission to court:<br><br>If the other party rejects the invitation to amicable settlement in writing or does not respond in writing to the invitation with 14 days, or amicable settlement is unsuccessful, either party may submit the dispute to court.  |
| 10.4.4                 | Amend Clause 10.4.4 to delete reference to “adjudication” and “arbitration” to read as follows:<br><br>Save for reference to any portion of any settlement or decision which has been agreed to be final and binding on the parties, no reference shall be made by or on behalf of either party in any subsequent court proceedings, to any outcome of an amicable settlement, or to the fact that any particular evidence was given, or to any submission, statement or admission made in the course of the amicable settlement. |
| 10.5<br>10.6<br>& 10.7 | The entire provisions of these Clauses are not applicable to this Contract.   |
| 10.10.3                | Amend Clause 10.10.3 as follows to reword and remove reference to “arbitrator”:<br><br>The court shall have full power to open up, review and revise any ruling, decision, order, instruction, certificate or valuation of the Engineer and Employer and neither party shall be limited in such proceedings before such court to the evidence or arguments put before the Engineer or Employer for the purpose of obtaining his ruling.   |

## CONTRACT PARTICIPATION GOAL TARGETS AND CIDB B.U.I.L.D. PROGRAMME

The contractor shall achieve in the performance of the contract the following Contract Participation Goals (CPGs) as described in PG-01.2 (EC): Scope of Work and PG-02.2 (EC): Pricing Assumptions and in accordance with the feasibility study, which forms part of the specifications in the CPG Section of the Specification of this contract.

|     |   |                |
|-----|---|----------------|
| (a) | Minimum 30% mandatory Subcontracting to SMMEs in accordance with the Preferential Procurement Policy Framework Act, 2000: Preferential Procurement Regulations, 2017 as published in the Government Gazette Notice No. 40553 of 20 January 2017 – Condition of Tender.  | Not applicable |
| (b) | Minimum Targeted Local Manufacturers of Material Contract Participation Goal, in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.  | Not applicable |
| (c) | Minimum Targeted Local Building Material Suppliers Contract Participation Goal in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract. | Not applicable |

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|     |  |                |
|-----|--|----------------|
| (d) | Minimum Targeted Local Labour Skills Development Contract Participation Goal in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.                                    | Not applicable |
| (e) | cidb BUILD Programme: Minimum Targeted Enterprise Development Contract Participation Goal in accordance with the cidb Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, No 36190 Government Gazette, 25 February 2013, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.  | Not applicable |
| (f) | cidb BUILD Programme: Minimum Targeted Contract Skills Development Goal in accordance with the cidb Standard for Developing Skills through Infrastructure Contracts as published in the Government Gazette Notice No. 43495 of 3 July 2020, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract. | Not applicable |
| (g) | DPWI National Youth Service training and development programme (NYS) – Condition of Contract.  | Not applicable |
| (h) | Labour Intensive Works – Condition of Contract.  | Not applicable |
|     |  | Select         |

|     |  |        |
|-----|--|--------|
| (i) |  |        |
| (j) |  | Select |

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|         |  |
|---------|--|
|         | <b>PART 2: DATA PROVIDED BY THE BIDDER</b>   |
| 1.1.1.9 | The name of the Bidder is: _____   |
| 1.2.1.2 | <p>The address of the Bidder is:</p> <p>Postal address:</p> <p>_____</p> <p>_____</p> <p>_____ <b>Postal Code:</b> _____</p> <p>Tel: _____ Fax: _____</p> <p>TAX / VAT Registration No: _____</p> <p>Physical address:</p> <p>_____</p> <p>_____</p> <p>_____ <b>Postal Code:</b> _____</p> <p>E-mail address: _____</p> |

|       |  |
|-------|--|
| 6.2.1 | <p>The security to be provided by the Contractor shall be one of the following:</p> <p>(a) Cash deposit of 10 % of the Contact Sum (excl. VAT) <input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO</p> <p>(b) Variable performance guarantee of 10 % of the Contract Sum (excl. VAT) <input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO</p> <p>(c) Retention of 10 % of the value of the Works (excl. VAT) <input checked="" type="checkbox"/> YES or <input type="checkbox"/> NO</p> <p>(d) Cash deposit of 5 % of the Contract Sum (excl. VAT) plus retention of 5 % of the value of the Works (excl. VAT) <input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO</p> <p>(e) Performance guarantee of 5 % of the Contract Sum (excl. VAT) plus retention of 5 % of the value of the Works (excl. VAT) <input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO</p> <p><b><i>NB: Guarantees submitted must be issued by either an insurance company duly registered in terms of the Insurance Act [Long-Term Insurance Act, 1998 (Act 52 of 1998) or Short-Term Insurance Act, 1998 (Act 53 of 1998)] or by a bank duly registered in terms of the Banks Act, 1990 (Act 94 of 1990) on the pro-forma referred to above. No alterations or amendments of the wording of the pro-forma will be accepted.</i></b></p> |
|-------|--|

### **C.1.3 Form of Guarantee**

## DPW-10.2 (EC): VARIABLE CONSTRUCTION GUARANTEE (GCC (2010) 2<sup>nd</sup> EDITION: 2010)

Director-General  
Department of Public Works and Infrastructure  
Government of the Republic of South Africa

### FOR ATTENTION

**Ms Asive Lomntu**  
Private Bag X5007  
**Mthatha**  
**5099**

Sir,

### VARIABLE CONSTRUCTION GUARANTEE FOR THE EXECUTION OF A CONTRACT IN TERMS OF GCC (2010) 2<sup>nd</sup> EDITION 2010

1. With reference to the contract between \_\_\_\_\_  
\_\_\_\_\_ (hereinafter referred to as the “**contractor**”) and the Government of the Republic of South Africa in its Department of Public Works and Infrastructure (hereinafter referred to as the “**employer**”), Contract/Tender No: **MTH59/2022**, for the **Repairs to faulty electrical supply installation and equipment** (hereinafter referred to as the “**contract**”) for the sum of R **insert amount**, (**insert amount in words**), (hereinafter referred to as the “**contract sum**”).  
  
I / We, \_\_\_\_\_  
in my/our capacity as \_\_\_\_\_ and hereby  
representing \_\_\_\_\_ (hereinafter referred to as the “**guarantor**”) advise that the **guarantor** holds at the **employer’s** disposal the sum of R \_\_\_\_\_, (**insert amount in words**.....) being 10% of the **contract sum** (excluding VAT), for the due fulfilment of the **contract**.
2. I / We advise that the **guarantor’s** liability in terms of this guarantee shall be as follows:
  - (a) From and including the date on which this guarantee is issued and up to and including the day before the date on which the last **certificate of completion** of works is issued, the **guarantor** will be liable in terms of this guarantee to the maximum amount of 10% of the **contract sum** (excluding VAT);
  - (b) The **guarantor’s** liability shall reduce to 5 % of the **value of the works** (excluding VAT) as determined at the date of the last **certificate of completion** of works, subject to such amount not exceeding 10% of the **contract sum** (excluding VAT);
  - (c) This guarantee shall expire on the date of the last **final approval certificate**.
3. The **guarantor** hereby renounces the benefits of the exceptions *non numeratae pecunia; non causa debiti; excussionis et divisionis; and de duobus vel pluribus reis debendi* which could be pleaded against the enforcement of this guarantee, with the meaning and effect whereof I/we declare myself/ourselves to be conversant, and undertake to pay the **employer** the amount guaranteed on receipt of a written demand from the **employer** to do so, stating that (in the **employer’s** opinion and sole discretion):
  - (a) the **contractor** has failed or neglected to comply with the terms and/or conditions of the **contract**; or

**Tender no: (Insert Tender Number)**

- (b) the **contractor's** estate is sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa.
- 4. Subject to the above, but without in any way detracting from the **employer's** rights to adopt any of the procedures provided for in the **contract**, the said demand can be made by the **employer** at any stage prior to the expiry of this guarantee.
- 5. The amount paid by the **guarantor** in terms of this guarantee may be retained by the **employer** on condition that upon issue of the last **final approval certificate**, the **employer** shall account to the **guarantor** showing how this amount has been expended and refund any balance due to the **guarantor**.
- 6. The **employer** shall have the absolute right to arrange his affairs with the **contractor** in any manner which the **employer** deems fit and the **guarantor** shall not have the right to claim his release on account of any conduct alleged to be prejudicial to the **guarantor**. Without derogating from the foregoing, any compromise, extension of the construction period, indulgence, release or variation of the **contractor's** obligation shall not affect the validity of this guarantee.
- 7. The **guarantor** reserves the right to withdraw from this guarantee at any time by depositing the guaranteed amount with the **employer**, whereupon the **guarantor's** liability ceases.
- 8. This guarantee is neither negotiable nor transferable, and
  - (a) must be surrendered to the **guarantor** at the time when the **employer** accounts to the **guarantor** in terms of clause 5 above, or
  - (b) shall lapse in accordance with clause 2 (c) above.
- 9. This guarantee shall not be interpreted as extending the **guarantor's** liability to anything more than payment of the amount guaranteed.

**SIGNED AT** \_\_\_\_\_ **ON THIS** \_\_\_\_\_ **DAY OF** \_\_\_\_\_ **20**\_\_\_\_\_

**AS WITNESS**

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_

**By and on behalf of**

\_\_\_\_\_  
 \_\_\_\_\_

**(insert the name and physical address of the guarantor)**

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

**CAPACITY:** \_\_\_\_\_  
**(duly authorised thereto by resolution attached marked Annexure A)**

**DATE:** \_\_\_\_\_

- A. No alterations and/or additions of the wording of this form will be accepted.**
- B. The physical address of the guarantor must be clearly indicated and will be regarded as the guarantor's *domicilium citandi et executandi*, for all purposes arising from this guarantee.**
- C. This GUARANTEE must be returned to:** \_\_\_\_\_





## DPW-10.4 (EC): FIXED CONSTRUCTION GUARANTEE GCC (2010) 2<sup>nd</sup> EDITION: 2010

Director-General  
Department of Public Works and Infrastructure  
Government of the Republic of South Africa

### FOR ATTENTION

**Ms A. Lomntu**  
Private Bag X5007  
**Mthatha**  
**5100**

Sir,

### FIXED CONSTRUCTION GUARANTEE FOR THE EXECUTION OF A CONTRACT IN TERMS OF GCC 2<sup>ND</sup> EDITION 2010

1. With reference to the contract between \_\_\_\_\_  
\_\_\_\_\_ (hereinafter referred to as the “**contractor**”) and the Government of the Republic of South Africa in its Department of Public Works and Infrastructure (hereinafter referred to as the “**employer**”), Contract/Tender No: **insert Contract / Tender No**, for the **Repairs to faulty electrical supply installation and equipment** (hereinafter referred to as the “**contract**”), for the sum of R ....., (**insert amount in words**.....), (hereinafter referred to as the “**contract sum**”).  
  
I / We, \_\_\_\_\_  
in my/our capacity as \_\_\_\_\_ and hereby  
representing \_\_\_\_\_ (hereinafter referred to as the “**guarantor**”) advise that the **guarantor** holds at the **employer’s** disposal the sum of R **insert amount**....., (**insert amount in words**.....) being 5% of the **contract sum** (excluding VAT), for the due fulfillment of the **contract**.
2. The **guarantor** hereby renounces the benefits of the exceptions *non numeratae pecunia; non causa debiti; excussionis et divisionis; and de duobus vel pluribus reis debendi* which could be pleaded against the enforcement of this guarantee, with the meaning and effect whereof I/we declare myself/ourselves to be conversant, and undertake to pay the **employer** the amount guaranteed on receipt of a written demand from the **employer** to do so, stating that (in the **employer’s** opinion and sole discretion):
  - (a) the **contractor** has failed or neglected to comply with the terms and/or conditions of the **contract**; or
  - (b) the **contractor’s** estate is sequestered; liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa.
3. Subject to the above, but without in any way detracting from the **employer’s** rights to adopt any of the procedures provided for in the **contract**, the said demand can be made by the **employer** at any stage prior to the expiry of this guarantee.
4. The amount paid by the **guarantor** in terms of this guarantee may be retained by the **employer** on condition that upon the issue of the last **final approval certificate**, the **employer** shall account to the **guarantor** showing how this amount has been expended and refund any balance due to the **guarantor**.

Tender No: **MTH59/2022**

5. The **employer** shall have the absolute right to arrange his affairs with the **contractor** in any manner which the **employer** deems fit and the **guarantor** shall not have the right to claim his release on account of any conduct alleged to be prejudicial to the **guarantor**. Without derogating from the foregoing, any compromise, extension of the construction period, indulgence, release or variation of the **contractor's** obligation shall not affect the validity of this guarantee.
6. The **guarantor** reserves the right to withdraw from this guarantee at any time by depositing the guaranteed amount with the **employer**, whereupon the **guarantor's** liability ceases.
7. This guarantee is neither negotiable nor transferable, and
  - (a) must be surrendered to the **guarantor** at the time when the **employer** accounts to the **guarantor** in terms of clause 4 above, or
  - (b) shall lapse on the date of the last **certificate of completion** of works.
8. This guarantee shall not be interpreted as extending the **guarantor's** liability to anything more than the payment of the amount guaranteed.

SIGNED AT \_\_\_\_\_ ON THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_\_\_\_.

AS WITNESS

1. \_\_\_\_\_

2. \_\_\_\_\_

By and on behalf of

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
(insert the name and physical address of the guarantor)

NAME: \_\_\_\_\_

CAPACITY: \_\_\_\_\_  
(duly authorised thereto by resolution attached marked Annexure A)

DATE: \_\_\_\_\_

- A. No alterations and/or additions of the wording of this form will be accepted.
- B. The physical address of the guarantor must be clearly indicated and will be regarded as the guarantor's *domicilium citandi et executandi*, for all purposes arising from this guarantee.
- C. This GUARANTEE must be returned to: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**PART C2 PRICING DATA**

## **C.2.1 Pricing Instructions**

## PG-02.1 (EC) PRICING ASSUMPTIONS – GCC (2010) 2<sup>nd</sup> Edition 2010

|                               |  |                      |  |
|-------------------------------|--|----------------------|--|
| <b>Project title:</b>         | DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT |                      |  |
| <b>Tender / Quotation no:</b> | <b>MTH59/2022</b>  | <b>Reference no:</b> |  |

### C2.1 Pricing Assumptions

#### C2.1.1 GENERAL

The Bill of Quantities forms part of the Contract Documents and must be read and priced in conjunction with all the other documents comprising the Contract Documents, which include the Conditions of Tender, Conditions of Contract, the Specifications (including the Project Specification) and the Drawings.

#### C2.1.2 DESCRIPTION OF ITEMS IN THE SCHEDULE

The Bill of Quantities has been drawn up generally in accordance with Civil Engineering Quantities 1990 issued by the SA Institution of Civil Engineers.

The short descriptions of the items in the Bill of Quantities are for identification purposes only and the measurement and payment clause of the Standardized Specifications and the Particular Specifications, read together with the relevant clauses of the Project Specification and directives on the drawings, set out what ancillary or associated work and activities are included in the rates for the operations specified.

#### C2.1.3 QUANTITIES REFLECTED IN THE SCHEDULE

The quantities given in the Bill of Quantities are estimates only, and subject to remeasuring during the execution of the work. The Contractor shall obtain the Engineer's detailed instructions for all work before ordering any materials or executing work or making arrangements for it.

The Works as finally completed in accordance with the Contract shall be measured and paid for as specified in the Bill of Quantities and in accordance with the General and Special Conditions of Contract, the Specifications and Project Specifications and the Drawings. Unless otherwise stated, items are measured net in accordance with the Drawings, and no allowance has been made for waste.

The validity of the contract will in no way be affected by differences between the quantities in the Bill of Quantities and the quantities finally certified for payment.

#### C2.1.4 PROVISIONAL SUMS

Where Provisional sums or Prime Cost sums are provided for items in the Bill of Quantities, payment for the work done under such items will be made in accordance with Clause 45 of the General Conditions of Contract 2004. The Employer reserves the right, during the execution of the works, to adjust the stated amounts upwards or downwards according to the work actually done under the item, or the item may be omitted altogether, without affecting the validity of the Contract.

The Tenderer shall not under any circumstances whatsoever delete or amend any of the sums inserted in the "Amount" column of the Bill of Quantities and in the Summary of the Bill of Quantities unless ordered or authorized in writing by the Employer before closure of tenders. Unauthorized changes made by the Tenderer to provisional items in the Bill of Quantities, or to the provisional percentages and sums in the Summary of the Bill of Quantities will lead to the disqualification of the Tenderer.

#### C2.1.5 PRICING OF THE BILL OF QUANTITIES

The **bills of quantities / lump sum document** forms part of and must be read and priced in conjunction with all the other documents forming part of the **contract documents**, the Standard Conditions of Tender, Conditions of Contract, Specifications, Drawings and all other relevant documentation.

PG-02.1 (EC) Pricing Assumptions – GCC  
GCC (2010) 2nd Edition 2010

The prices and rates to be inserted by the Tenderer in the Bill of Quantities shall be the full inclusive prices to be paid by the Employer for the work described under the several items, and shall include full compensation for all cost and expenses that may be required in and for the completion and maintenance during the defects liability period of all the work described and as shown on the drawings as well as all overheads, profits, incidentals and the cost of all general risks, liabilities and obligations set forth or implied in the documents on which the Tender is based.

Each item shall be priced and extended to the "Total" column by the Tenderer, with the exception of the items for which only rates are required, or items which already have Prime Cost or Provisional Sums affixed thereto. If the Contractor omits to price any items in the Bill of Quantities, then these items will be considered to have a nil rate or price.

The Tenderer is required to check the Bills of Quantities and the numbers of the pages and should any be found to be missing or in duplicate, or should any of the typing be indistinct, or any doubt of obscurity arise as to the meaning of any description or particulars of any item, or if this Tender Enquiry contains any obvious errors, then the Tenderer must immediately inform the Principal Agent and have them rectified or explained in writing as the case may be. No liability whatsoever will be admitted by reason of the Contractor having failed to comply with the foregoing instruction.

No alterations, erasures, omissions or additions is to be made in the text and/or conditions of these Bills of Quantities. Should any such alterations, amendments, note/s or addition be made, the same will not be recognized, but reading of these Bills of Quantities as originally prepared by the Quantity Surveyor will be adhered to.

The contractor is cautioned that the use of any quantities appearing in these Bills of Quantities for the purpose of ordering material, it is done at own risk and no liability whatsoever will be admitted by the Employer or Quantity Surveyor for the correctness of such Quantities. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance is made for waste.

The prices and rates to be inserted by the Tenderer in the Bills of Quantities shall be the full inclusive prices to be paid by the Employer for the work described. Such prices and rates shall cover all costs and expenses that may be required in and for the execution of the work described, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the documents on which the tender is based, as well as overhead charges and profit. Market related prices shall be inserted as these will be used as a basis for assessment of payment for additional work that may have to be carried out. The Employer reserves the right to balance the Bill rates where deemed necessary within the Tendered Amount.

A price or rate is to be entered against each item in the Bills of Quantities, whether the quantities are stated or not. An item against which no rate is/are entered, or if anything other than a rate or a nil rate (for example, a zero, a dash or the word "included" or abbreviations thereof) is entered against an item, it will also be regarded as a nil rate having been entered against that item, i.e. that there is no charge for that item. The Tenderer may be requested to clarify nil rates, or items regarded as having nil rates; and the Employer may also perform a risk analysis with regard to the reasonableness of such rates.

Should the full intent and meaning of any description not be clear, the bidder shall, before submission of his tender, call for a written directive from the principal agent, failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship in terms of National Best Practice.

All items for which terminology such as "inclusive" or "not applicable" have been added by the Tenderer will be regarded as having a nil rate which shall be valid irrespective of any change in quantities during the execution of the Contract.

The Tenderer shall fill in rates for all items where the words "rate only" appear in the "Total" column. "Rate Only" items have been included where:

- (a) variations of specified components in the make-up of a pay item may be expected; and
- (b) no work under the item is foreseen at tender stage but the possibility that such work may be required is not excluded.

For ‘Rate Only’ items no quantities are given in the “Quantity” column but the quoted rate shall apply in the event of work under this item being required. The Tenderer shall however note that in terms of the Tender Data the Tenderer may be asked to reconsider any such rates which the Employer may regard as unbalanced.

Descriptions in the Bills of Quantities are abbreviated and comply generally with those in the “PW 371” and the principles contained in the latest version of the SANS 1200 in South Africa. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the bidder shall, before submission of his tender, call for a written directive from the principal agent, failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship in terms of National Best Practice.

The price quoted against each item of this Bills of Quantities shall cover the full inclusive cost of the complete work to which it refers, as described in the Conditions of Contract and Specifications and as shown on the Drawings and shall allow for labour, material, transporting, loading, storage, supervision, commissioning, wastage, as well as the builders profit and attendance.

The Tenderer must ensure that he fully completes all columns of the Bill of Quantities including the Final Summary. The fully priced bill of quantities must be submitted with the tender or The Final Summary and the Section Summary pages MUST be returned with the tender document as indicated the PA-03 Notice and Invitation to Tender / PA-04 Notice and Invitation for quotation.

The tenderers are to ensure that they have read and understood the project specifications included in C3: Scope of Work. All the information provided in the Scope of Works form part of the work and must be included in the rates.

“The Contractor shall be deemed to have inspected and examined the Site and its surroundings and information available in connection therewith and to have satisfied himself before submitting his tender (as far as is practicable) as to:

- (a) the form and nature of the Site and its surroundings, including subsurface conditions,
- (b) the hydrological and climatic conditions,
- (c) the extent and nature of work and materials necessary for the execution and completion of the Works,
- (d) the means of access to the Site and the accommodation he may require

and, in general, shall be deemed to have obtained all information (as far as is practicable) as to risks, contingencies and all other circumstances which may influence or affect his Tender”

#### **C2.1.6 VALUE ADDED TAX**

The **contract sum** must include for Value Added Tax (VAT). All rates, provisional sums, etc. in the **bills of quantities / lump sum document** shall be in Rands and cents and shall include all levies and taxes (other than VAT). VAT will be added in the summary of the Bill of Quantities. The rates must however be net (exclusive of VAT) with VAT calculated and added to the total value thereof in the Final Summary. All rates and amounts quoted in the Bill of Quantities

#### **C2.1.7 CORRECTION OF ENTRIES**

Incorrect entries shall not be erased or obliterated with correction fluid but must be crossed out neatly. The correct figures must be entered above or adjacent to the deleted entry, and the alteration must be initialled by the Tenderer.

#### **C2.1.8 ARITHMETICAL ERRORS**

Arithmetical errors found in the Bill of Quantities as a result of faulty multiplication of addition, will be corrected by the Engineer at the tender evaluation stage, as set out in the Tender Data.

### **C2.1.9 CONTRACT DOCUMENTS**

The Tenderers are advised to examine the bills of quantities, drawings and specifications including all other contract documents and make themselves thoroughly acquainted with the nature and requirements of the work, as no claim for extra payment in this regard will be entertained. Should any parts of the drawings not be clearly intelligible to the Tender, he must, before submitting his tender, obtain clarification from the Principal Agent.

### **C2.1.10 UNITS OF MEASUREMENT**

The units of measurement described in the Bill of Quantities are metric units for which the standard international abbreviations are used. Non-standard abbreviations which may appear in the Bill of Quantities are as follows:

|                      |   |                         |
|----------------------|---|-------------------------|
| No.                  | = | Number                  |
| %                    | = | Percent                 |
| Sum                  | = | Lump sum                |
| PCsum                | = | Prime cost sum          |
| Prov sum             | = | Provisional sum         |
| m <sup>3</sup> .km   | = | Cubic metre - kilometre |
| Km-pas               | = | kilometre - pass        |
| m <sup>2</sup> .pass | = | square metre – pass     |

### **C2.1.11 TRADE NAMES**

Tenderers attention is drawn to the fact that wherever trade names or references to any catalogue have been made in these Bills of Quantities, it is purely to establish a standard for the required material. If use is made of any other equally approved material in lieu of the prescribed trade name or catalogue, the necessary price adjustments will be made.

### **C2.1.12 CONTRACT DOCUMENTS**

The Tenderers are advised to examine the bills of quantities, drawings and specifications including all other contract documents and make themselves thoroughly acquainted with the nature and requirements of the work, as no claim for extra payment in this regard will be entertained. Should any parts of the drawings not be clearly intelligible to the Tender, he must, before submitting his tender, obtain clarification from the Principal Agent.

### **C2.1.13 PAYMENTS**

Interim valuations and payments will be prepared on a monthly basis, all in terms of the conditions of contract.

The contractor is to note that no payment will be made for materials stored off site and in the case of materials being stored on site, payment will only be made for such materials on condition that they have not been delivered to the site prematurely, a tax invoice and proof of payment (ownership) is submitted by the Contractor.

### **C2.1.14 ACCOMMODATION ON SITE**

It is imperative to note that no living quarters for construction workers on site will not be permitted for the full duration of the contract unless otherwise stated in the contract data or permission be granted by the Employer.



## C2.1.15 LOCAL MATERIAL UTILISATION REPORT (LOCAL CONTENT)

Bidders to note that materials procured for the works should be from South African manufactures and suppliers. Imported materials shall only be considered under exceptional circumstances, based on compelling technical justifications, and subject to the approval by the NDPWI.

The contractor shall achieve in the performance of this contract the prescribed local content deliverables as listed in PA36 and annexures C thereto in the respective designated sectors as published by Department Trade Industry and Competition (DTIC). The Service Provider shall submit an accumulative monthly report to the Employer's representative indicating the percentage targets achieved which must be reconciled upon completion of the project and to form part of the final account.

The contractor shall be responsible for record keeping, documenting and submission of monthly local material utilization report with supporting documentation to the Employer's representative within 7 working days of the beginning of the successive month, in terms of DTI&C designated industry/sector/sub-sector schedule as per the PA36 and Annexures C attached to the tender document. The final percentage achievement to be reconciled upon completion of the project and form part of the final account.

## C2.1.16 CONTRACT PARTICIPATION GOALS

The contractor shall achieve in the performance of this contract the following Contract Participation Goals (CPGs) as indicated below:

Provision for pricing of compliance with the achieving the CPGs is made in the Contract Participation Goal Section of the Bills of Quantities and it is explicitly pointed out that all requirements in respect of the aforementioned are deemed to be priced thereunder and no additional claims in this regard shall be entertained

Monthly progressive reports to be submitted to the Employer's representative indicating the percentage targets achieved which must be reconciled upon completion of the project and to form part of the final account.

### C2.1.16.1 Minimum 30% Sub-contracting Contract Participation Goal

#### **MINIMUM 30% MANDATORY SUBCONTRACTING TO SMMEs: IMPLEMENTATION OF PREFERENTIAL PROCUREMENT REGULATIONS 2017**

**30% Mandatory subcontracting is *"not applicable"* to this project.**

Provision is made within the Contract Participation Goal section in the Bill of Quantities for thirty percent (30%) subcontracting to SMMEs in the execution of this project as described in PG-01.1 (EC) SCOPE OF WORKS C3.5.1. The contractor shall price his Profit and Attendance, all inclusive of associated costs to the contractor for implementation. Allowance must be made for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

### C2.1.16.2 MINIMUM TARGETED LOCAL BUILDING MATERIAL MANUFACTURERS CONTRACT PARTICIPATION GOAL

**The Minimum Targeted Local Building Material Manufacturers CPG is *"not applicable"* to this project.**

Provision is made within the Contract Participation Goal section in the Bill of Quantities for the Minimum Targeted Local Building Material Manufacturers CPG in the execution of this project as

described in PG-01.1 (EC) SCOPE OF WORKS C3.5.2. The contractor shall price his Profit and Attendance, all inclusive of associated costs to the contractor for implementation. Allowance must be made for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

**C2.1.16.3 MINIMUM TARGETED LOCAL BUILDING MATERIAL SUPPLIERS CONTRACT PARTICIPATION GOAL**

**The Minimum Targeted Local Building Material Suppliers CPG is "not applicable" to this project.**

Provision is made within the Contract Participation Goal section in the Bill of Quantities for the Minimum Targeted Local Building Material Suppliers CPG in the execution of this project as described in PG-01.1 (EC) SCOPE OF WORKS C3.5.3. The contractor shall price his Profit and Attendance, all inclusive of associated costs to the contractor for implementation. Allowance must be made for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

**C2.1.16.4 MINIMUM TARGETED LOCAL LABOUR SKILLS DEVELOPMENT CONTRACT PARTICIPATION GOAL**

**The Minimum Targeted Local Labour Skills Development CPG is "not applicable" to this project.**

Provision is made within the Contract Participation Goal section in the Bill of Quantities for the Minimum Targeted Local Labour Skills Development CPG in the execution of this project as described in PG-01.1 (EC) SCOPE OF WORKS C3.5.4. The contractor shall price his Profit and Attendance, all inclusive of associated costs to the contractor for implementation. Allowance must be made for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

**C2.1.16.5 CIDB BUILD PROGRAMME: MINIMUM TARGETED ENTERPRISE DEVELOPMENT: CONTRACT PARTICIPATION GOALS (CPG)**

**The Minimum Targeted Enterprise Development CPG is "not applicable" to this project.**

A provisional amount has been allowed for within the Contract Participation Goal section in the Bill of Quantities for the Minimum Targeted Enterprise Development CPG in the execution of this project as described in PG-01.1 (EC) SCOPE OF WORKS C3.5.5. The provisional amount allowed is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises.

The contractor shall price his Profit and Attendance, all inclusive of associated costs to the contractor for implementation. Allowance must be made for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

The contractor shall complete a separate bill of quantities upon the award of the project and identification of the respective beneficiaries and the appointment of the training coordinator, mentor, training service providers of which the cost will be offset against the provisional amount allowed in the Bills of Quantities.

**C2.1.16.6 CIDB BUILD PROGRAMME: MINIMUM TARGETED TARGETED CONTRACT SKILLS DEVELOPMENT GOALS (CSDG)**

**The Minimum Targeted Contract Skills Development CPG is "not applicable" to this project.**

A provisional amount has been allowed for within the Contract Participation Goal section in the Bill of Quantities for the Minimum Targeted Skills Development CPG in the execution of this project as described in PG-01.1 (EC) SCOPE OF WORKS C3.5.6. The provisional amount allowed is for:

- stipends payable to the beneficiaries
- appointment of training coordinator
- appointment of mentor (where applicable)
- appointment of training service providers
- other additional costs as per table 3 of the Standard

The contractor shall price his Profit and Attendance (all inclusive of associated costs to the contractor for implementation and reporting), based on the provisional amount in the Contract Participation Goal section in the Bill of Quantities. The contractor shall complete a separate bill of quantities upon the award of the project and identification of the respective beneficiaries. The CPG value to be achieved will be based on the actual contract amount which will be offset against the provisional amount allowed for within the Contract Participation Goal section in the Bill of Quantities.

Allowance must be made for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

**Payment**

The contractor shall upon the appointment of beneficiaries, provide a breakdown of all the associated costs. The contractor shall provide a payment schedule as to how the CPG costs will be claimed against for inclusion in the monthly payment certificates.

**(a) Payment to the contractor to accommodate Part/Full Occupational qualification and Trade qualifications;**

Should the contractor select Part/Full Occupational qualification and Trade qualifications learners, then the employer shall make provision for payment to the contractor as indicated in Table 3 of the Standard.

The contract skills participation goal, expressed in Rand, shall not be less than the contract amount multiplied by a percentage (%) factor given in Table 2 in the Standard for the applicable class of construction works. Should the contractor select Part/Full Occupational qualification and Trade qualifications learners, then the employer shall make provision for payment to the contractor as indicated in Table 3 of the Standard.

No provision for an additional payment item for the payment of the supervisor and/or mentors for the provision of training as provided for in the Contract Participation Goal section in the Bill of Quantities for the training of part/full time occupational learners and/or trade qualification learners. The associated cost is deemed to be included in general supervision on site.

The contractor shall complete a separate bill of quantities upon award, indicating the type and number of beneficiaries as well as the associated Notional Cost of Training to be provided, on which payment will be based.

(b) Payment to the contractor to accommodate Work Integrated Learners and Candidates for professional registration;

Should the contractor select Work Integrated Learners and/or Candidates for professional registration, then the employer shall make provision for payment to the contractor as indicated in Table 3 of the Standard.

Provisional amounts have been included in the Contract Participation Goal section in the Bill of Quantities for the training of Work Integrated Learners and Candidates for professional registration. The contractor shall price his Profit and Attendance (all inclusive of associated costs to the contractor for implementation and reporting), based on the provisional amount in the Contract Participation Goal section in the Bill of Quantities.

The contractor shall complete a separate bill of quantities upon award, indicating the type and number of beneficiaries as well as the associated Notional Cost of Training to be provided, on which payment will be based.

The CPG value to be achieved will be based on the contract amount as defined by the Standard, which will be offset against the provisional amount allowed for within the Contract Participation Goal section in the Bill of Quantities.

The contractor shall apportion the cost of accommodating work integrated learners (P1 and P2 learners) and candidates for professional registration by using Table 3 in the Standard and this cost will be used to determine the Rand value and will be used in determining the contract participation goal in the Bills of Quantities.

**Table 3: Notional Cost of Training; Headcount**

Source: cidb Standard for Skills Development

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

Note: the required CPG will be recalculated based on the awarded tender amount and "Contract amount" once the beneficiaries have been appointed and actual costs are known. The notional cost of providing training opportunities will increase by CPI on an annual basis based on April CPI. Should the rates increase after bid award or during construction the rates will be adjusted as a remeasurable item.

**Example: Training Target Calculation for a R65,7m GB contract**

|                     |  |
|---------------------|--|
| Contract amount     | R65 700 000  |
| Contract duration   | 12 Months  |
| CSDG                | 0,50%  |
| Minimum CSDG target | 0,50% x R65 700 000 = R328 500 (Minimum requirement) |

Table 4: Notional cost recalculation upon appointment of beneficiaries

| Skills Types | Number of learners | Notional Cost / Learner / Quarter | Notional cost/learner/year | Total Notional Cost over 12 months Contract |
|--------------|--------------------|-----------------------------------|----------------------------|---|
|--------------|--------------------|-----------------------------------|----------------------------|---|

|  |   |         |          |          |
|--|---|---------|----------|----------|
| <b>Method 2:</b><br>Workplace learning opportunities, with unemployed TVET graduates | 1 | R23 000 | R92 000  | R92 000  |
| <b>Method 3:</b><br>Candidacy for an unemployed learner with a 3-year qualification  | 1 | R61 500 | R246 000 | R246 000 |
| Total  | 2 |         |          | R338 000 |

#### C2.1.16.7 NATIONAL YOUTH SERVICE TRAINING AND DEVELOPMENT PROGRAMME

The National Youth Service Training and Development Programme is *"not applicable"* to this project.

The programme shall be implemented in terms of the Implementation of the National Youth Service Programme under the Expanded Public Works (EPWP) and shall be priced in the CPG section of the Bills of Quantities.

Provision has been made within the Contract Participation Goal section in the Bill of Quantities for the National Youth Service Training and Development Programme CPG in the execution of this project as described in PG-01.1 (EC) SCOPE OF WORKS C3.5.7. The contractor to price all elements of this section and allowance must be made for submitting monthly reports in the prescribed manner as per examples of reports bound in the specification document.

#### C2.1.16.8 LABOUR-INTENSIVE WORKS

Labour Intensive Works is *"not applicable"* to this project

Where labour intensive work is specified in the Bill of Quantities and indicated by "LI" the contractor must price for and include in rates. Contractors are expected to use their initiative to identify additional activities that can be done labour-intensively to comply with the set minimum labour intensity target. Allowance must be made for submitting monthly reports illustrating the value of the works executed under Labour Intensive Works.

#### C2.2 Submission of Accrual Reports

The Contractor shall submit accrual reports to the client representative at the end of March and September each year for the duration of the Service Contract period from the date of appointment up to and including project closeout. This is to ensure that PMTE complies with the accounting framework GRAP, which requires that PMTE disclose all its accruals as at the end of each reporting date. Allowance must be made for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

## **PART C3: Scope of Work**

## PG-01.1 (EC) SCOPE OF WORKS – (GCC (2010) 2<sup>nd</sup> EDITION: 2010)

|                       |  |                      |  |
|-----------------------|--|----------------------|--|
| <b>Project title:</b> | DORDRECHT PRISON: REPAIRS TO FAULTY ELECTRICAL SUPPLY INSTALLATION AND EQUIPMENT |                      |  |
| <b>Tender no:</b>     | MTH59/2022   | <b>Reference no:</b> |  |

### C3. Scope of Works

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**NOTE:** This is an example only. Compiler / Designer to provide the applicable contents.

##### B: AMENDMENTS TO THE STANDARD SPECIFICATIONS

Variations and additions to the following SABS 1200 standardized specifications:

- SABS 1200A : General
- SABS 1200AB : Engineer's office

#### C3.3 PARTICULAR SPECIFICATIONS TECHNICAL SPECIFICATIONS:

- C3.3.1 SUPPLEMENTARY SPECIFICATIONS FOR ELECTRICAL WORKS
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#### C3.7 SUBMISSION OF ACCRUAL REPORTS

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### C3.1 STANDARD SPECIFICATIONS

The standard specifications on which this contract is based are the **South African Bureau of Standards Standardized Specifications for Civil Engineering Construction SABS 1200**. *(Note to compiler. "SABS" has been changed to "SANS"; the SABS 1200 specifications are due to be replaced in the foreseeable future by SANS 2100)*

Although not bound in nor issued with this Document, the following Sections of the Standardized Specifications of SABS 1200 shall form part of this Contract:

- SANS 10400 : National Building Regulations
- SANS 10400-XA : National Building Regulations – Energy Saving Initiatives
- SANS 10142 : Code of practice for wiring of premises
- SANS 10400-A : General principles and requirements
- SANS 10400-O : Lighting and Ventilation



## **C3.2 PROJECT SPECIFICATIONS:**

### **Status**

The Project Specification, consisting of two parts, forms an integral part of the contract and supplements the Standard Specifications.

Part1 A contains a general description of the works, the site and the requirements to be met.

Part B contains variations, amendments and additions to the Standardized Specifications and, if applicable, the Particular Specifications.

In the event of any discrepancy between a part or parts of the Standardised of Particular Specifications and the Project Specification, the Project Specification shall take precedence. In the event of a discrepancy between the specifications, (including the Project Specifications) and the drawings and / or the Bill of Quantities, the discrepancy shall be resolved by the Engineer before the execution of the work under the relevant item.

## **A GENERAL**

### **PS-1 PROJECT DESCRIPTION:**

The work covered by this contract comprises the complete electrical and partial mechanical Installation, in working order, as shown in the drawings and as per the specifications, including the supply and installation of all fittings and also the installation of such equipment supplied by the Employer.

The electrical work covered shall include a complete stripping and rewiring of the electrical connections for the entire building, rewiring of the distribution boards to comply with the new circuitry, supply and installation of an indoor emergency generator set, supply and installation of a fire suppression system in the generator room, testing and certifying the electrical installations as safe and issuing Certificate of Compliance (COC) for all work done.

The mechanical work covered shall include the repair of the kitchen equipment if possible, and supply, delivery and installation of new kitchen equipment to replace the broken ones, including testing, commissioning, certification and final handover. Additionally, mechanical work is to include the supply, delivery and installation of new air conditioning equipment to replace the broken ones, including testing, commissioning, certification and final handover.

### **PS-2 DESCRIPTION OF SITE AND ACCESS**

The Dordrecht Correctional Services is located in the Central Business District of Dordrecht, with GPS coordinates -31.37°S, 27.05° E, in the Eastern Cape, South Africa, and was constructed in 1885. Dordrecht Correctional Centre is a small facility which was designed to accommodate 98 offenders. There are two houses for head of prison and assistant head within the facility which are utilised by the DCS officials.

## **B AMENDMENTS TO THE STANDARD SPECIFICATION:**

The following variations and additions to the SABS 1200 Standardised Specifications referred to in the last clause of Portion 1 apply to this Contract. The prefix PS indicates an amendment to SABS 1200. The letters and numbers following these prefixes respectively indicate the relevant Standardised Specification and clause numbers in SABS 1200

PSA GENERAL

PSA 2 INTERPRETATIONS

PSA 2.3 DEFINATIONS

(a) General

ADD THE FOLLOWING DEFINATIONS:

“General conditions: The general conditions of Contract specified for use with this Contract, and the Contract Data.

Specified: As specified in the standardised and standard specification, the Drawings or the Scope of Work.

Permanent Works: as defined in Clause 1.1.17 of the General Conditions of Contract shall for the purpose of this Contract, be regarded as the repair work and maintenance work as defined in Sub clause PS-3.06 of Additional Specification PS: General Maintenance.”

(b) Measurement and payment

REPLACE THE DEFINITIONS FOR “fixed charge”, “time-related charge” and “value-related charge” WITH THE FOLLOWING:

“Fixed charge: A charge that is not subject to adjustment on account of variation in the value of the Contract price or the Contract Time of Completion.

Time related charge: A charge, the amount of which varies in accordance with the Time for Completion of the repair work, adjusted in accordance with the provisions of the Contract.

Value-related charge: A charge, the amount of which varies pro rata with the final value of the measured repair work executed and valued in accordance with the provisions of the Contract.”

### PSA 3 MATERIALS

#### PSA 3.1 QUALITY

ADD THE FOLLOWING:

“All manufactured materials supplied shall be new materials unless the contrary is specified. All materials specified in accordance with SABS specifications shall bear the SABS mark, whether so specified or not.”

ADD THE FOLLOWING SUBCLAUSE:

#### “PSA 3.3 ORDERING OF MATERIALS

The quantities set out in the Bill of Quantities have been carefully determined from calculations based on data available at the time and should therefore be considered to be approximate quantities only. Before ordering materials of any kind the contractor shall check with the Engineer whether or not the scope of work for which the materials are required is likely to change substantially. No liability or responsibility whatsoever shall be attached to the Employer for materials ordered by the Contractor expect when ordered in accordance with written confirmation issued by the Engineer.”

### PSA 5 CONSTRUCTION

#### PSA 5.4 PROTECTION OF OVERHEAD AND UNDERGROUND SERVICES

REPLACE THE HEADING AND THE CONTENTS OF THIS SUBCLAUSE WITH THE FOLLOWING:

#### “PSA 5.4 LOCATION AND PROTECTION OF EXISTING SERVICES

##### PSA 5.4.1 Location of existing services

Before underground or excavation work is carried out, the Contractor shall ascertain the presence and position of all services likely to be damaged or interfered with by his activities. He shall obtain up-to-date plans from the Engineer for this purpose, showing the position of services in the area where he intends to work. As services can often not be reliably located from such plans, the Contractor shall determine the exact position of such services by means of suitable detecting equipment and afterwards by careful hand excavation where necessary. In order to expose the

services at the positions of possible interference by his activities. This procedure shall also be followed in respect of services not shown on the plans but believed to be present.

All such services. The position of which have been located at the critical points, shall be designated as 'known' services and their positions shall be indicated on a separate set of Drawings, a copy of which shall be furnished to the Engineer.

While he is occupying the site, the Contractor shall be liable for all damages caused by him to known services as well as for consequential damage, whether caused directly by his operations or by the lack of proper protection.

#### PSA 5.4.2 Protection during repair and maintenance work

The Contractor shall exercise all the necessary care to prevent damages to known services during repair and maintenance work. Where applicable, major excavating equipment and other Plant shall not be operated dangerously close to these services. Where necessary, excavation in close proximity to these services shall be carefully carried out with suitable hand tools, excluding picks wherever their use could damage the services. No additional payment will apply to such more difficult work.

Services left exposed shall be suitably protected from damage.

#### PSA 5.4.3 alterations and repairs to existing services

Unless the contrary is clearly specified or ordered, the Contractor shall not carry out alterations to existing services. When this is necessary, the contractor shall inform the Engineer, who will either make arrangements for such work to be executed by the owner of the service, or instruct the Contractor to make such arrangements himself.

When existing services are damaged by the Contractor, he shall immediately inform the Engineer, or when this is not possible, the relevant authority, and obtain instructions as to who should carry out repairs. In urgent cases the Contractor shall take the necessary steps to minimise damage to and Interruption of the service. No repairs of telecommunication cables or electrical power lines and cables shall be attempted.

The Employer will accept no liability for damages due to a delay in having such alterations or repairs affected. The contractor shall provide all reasonable opportunity, access and assistance to persons carrying out alterations or repairs of existing services."

#### PSA 6 TOLERANCES

ADD THE FOLLOWING SUBCLAUSE:

##### "PSA 6.4 GENERAL

No guarantee is given that the full specified tolerances will be available independently of each other, and the Contractor is cautioned that the liberal of full use of any one or more of the tolerances may deprive him of the full or any use of tolerances relating to other aspects of the work.

Except where the contrary is specified or when clearly not applicable, all quantities for measurement and payment shall be determined from the 'authorised' dimensions. These are specified dimensions or those shown on the Drawings or, if changed, as finally prescribed by the Engineer, without any allowances for the specified tolerances. Except if otherwise specified, all measurements for determining quantities for payment will be based on the 'authorised' dimensions.

If the work is therefore constructed in accordance with the 'authorised' dimensions plus or minus the tolerances allowed, quantities will be based on the 'authorised' dimensions regardless of the actual dimensions to which the work has been constructed.

When the work is not constructed in accordance with the 'authorised' dimensions plus or minus the tolerances allowed, the Engineer may nevertheless, at his sole discretion, accept the work for payment. In such cases no payment shall be made for quantities of work or material in excess of those calculated for the 'authorised' dimensions, and where the actual dimensions are less than the

'authorised' dimensions minus the tolerance allowed, quantities for payment shall be based on the actual dimensions as constructed."

## PSA 8 MEASUREMENT AND PAYMENT

### PSA 8.2 PAYMENT

#### PSA 8.2.1 Fixed-charge and value related items

REPLACE THE CONTENTS OF THIS SUBCLAUSE WITH THE FOLLOWING:

"Payment of fixed charges in respect of item 8.3.1 will be made as follows:

Eighty per cent (80%) of the sum bid will be paid when the facilities have been provided and approved. The remaining 20% will be paid when the repair works have been completed, the facilities have been removed and the camp site has been cleared and cleaned.

Payment for the sum bid under Item 8.3.2 will be made in three separate instalments as follows:

- (a) The first instalment, which is 40% of the sum, will be paid when the Contractor has fulfilled all his obligations to date under this Standardised Specification, the General Conditions of Contract and the Contract Data, and when the value of work certified for payment, excluding materials on Site and payments for preliminary and general items, is equal to not less than 5% of the total value of the repair work listed in the Bills of Quantities.
- (b) The second instalment, which is 40% of the sum, will be made when the amount certified for payment, including retention monies but excluding this second instalment, exceeds 50% of the repair work.
- (c) The final payment, which is 20% of the sum, will be made when the repair works have been certified as completed and the Contractor has fulfilled all his obligations to date under this Standardised Specification, the General Conditions of Contract and the Contract Data.

Should the value of the measured repair work finally completed be more or less than the Bid Sum for repair work, the sum bid under item 8.3.2 will be adjusted up or down in accordance with the provisions of Clause 50 of the General conditions of Contract s amended in part 1 of the Contract Data, and this adjustment will be applied to the third instalment. No adjustment will apply to item 8.3.1 in respect of variations in the value of work done or after the finally authorised Time for Completion."

Note: Payment under item 8.3.2 will only be applicable to repair work.

#### PSA 8.2.2 Time-related items

REPLACE THE CONTENTS OF THIS SUBCLAUSE WITH THE FOLLOWING:

"Subject to the provisions of sub clauses 8.2.3 ad 8.2.4, payment under item 8.4.1 (time-related item) will be made monthly in equal amounts for each installation, calculated by dividing the sum bid for the item by the repair phase period for the installation in months, provided always that the total of the monthly amounts so paid for the item is not out of proportion with the progress of the work on the installation as a whole.

Should the Engineer grant an extension of Time for Completion of the repair works on the installation, the contractor will be entitled to an increase in the sum bid for the time-related item, which increase shall be in the same proportion to the original sum bid as the extension of time is to the original Time for Completion of the repair works.

Payment of such increased amounts will be deemed full compensation for all additional time-related preliminaries and general costs due to the circumstances pertaining to the extension of time granted for an installation. The length of the repair phase for each installation is indicated in Part 1 of the Contract Data.

In the Bills of Quantities separate provision is made for time-related items for each installation individually. Time-related payment for an installation shall only be made when the repair work on the installation is in progress and shall end when the time for completion or an extension of time granted by the Engineer expires. When repair work on more than one installation is in progress, time-related payment will be made for each installation and the conditions as stated above shall apply to each installation individually.”

#### PSA 8.3 BILLED FIXED-CHARGE AND VALUE –RELATED ITEMS

REPLACE THE ITEMS WITH THE FOLLOWING:

“PSA 8.3.1 Fixed Preliminary and general charges .....Unit: Sum

“PSA 8.3.2 Value-related preliminary and general charges .....Unit: Sum

The sums bid shall include full compensation for all fixed and value-related preliminary and general charges as described in sub clause PSA 8.1.2.2. Payment will be made as described in Subclause PSA 8.2.1.”

#### PSA 8.12 CALL CENTRE

(a) Call centre operating costs for breakdown calls logged .....Unit: Sum

(b) Charge required by contractor on subitem (a) above .....Unit: %

An amount has been allowed in the Bill of Quantities under subitem (a) to cover the cost of administrating breakdown calls logged through the call centre. The call centre will submit to the contractor a monthly invoice for breakdown calls logged and monthly subscription. The Contractor will be responsible for prompt payment of the invoice received from the call centre.

The bid percentage under subitem (b) will be paid to the Contractor on the value of each payment pertaining to the call centre to cover his expenses in this regard.

Payment to the Contractor will only become due upon submission of proof of payment to the call centre.

**C3.3 PARTICULAR SPECIFICATIONS:**

**TECHNICAL SPECIFICATIONS:**

C3.3.1 SUPPLEMENTARY SPECIFICATIONS FOR ELECTRICAL WORKS

C3.3.2 SPECIFICATIONS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF AN  
INDOOR EMERGENCY GENERATOR SET

C3.3.3 TECHNICAL SPECIFICATIONS: KITCHEN EQUIPMENT

#### **C3.4 ADDITIONAL SPECIFICATIONS:**

The following additional Specifications for work not covered by the SABS 1200 Standardised Specifications or the Technical and Particular specifications are bound in after the Technical and Particular specifications:

- HIV/AIDS Specifications and Schedules
- The Occupational Health and Safety Act, 1993 (ACT 85 of 1993) as amended,
- COVID-19 Guidelines for management of risk on Construction Sites

### **C3.5 STANDARD MINIMUM REQUIREMENTS**

In terms of section 5(2) of the Construction Industry Development Board Act, 2000 (Act no. 38 of 2000) (the Act), the Construction Industry Development Board is empowered to establish and promote best practice standards, Standard Requirements and Guidelines which includes the following but not limited to:

- C3.5.1 cidb Best Practice: Green Building Certification, No. 34158 Government Gazette, 1 April 2011
- C3.5.2 cidb Standard for Developing Skills through Infrastructure Contracts, No. 36760 Government Gazette, 23 August 2013
- C3.5.3 cidb Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, No 36190 Government Gazette, 25 February 2013
- C3.5.4 Preferential Procurement Policy Framework Act, 2000: Preferential Procurement Regulations, 2017, No. 40553 Government Gazette, 20 January 2017
- C3.5.5 cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts, No. 41237 Government Gazette, 10 November 2017
- C3.5.6 cidb Standard for Minimum Requirements for Engaging Contractors and Sub-Contractors on Construction Works Contracts, No. 41237 Government Gazette, 10 November 2017
- C3.5.7 cidb Standard for Minimum Requirements for Engaging Contractors and Sub- Contractors on Construction Works Contracts, No. 42021 Government Gazette, 9 November 2018
- C3.5.8 cidb Standard for Developing Skills through Infrastructure Contracts, No. 43495 Government Gazette, 3 July 2020



### **C3.6 CONTRACT PARTICIPATION GOALS AND CIDB BUILD PROGRAMME**

The contractor shall achieve in the performance of the contract the following Contract Participation Goals (CPGs) as indicated below. Provision for pricing of compliance with the achieving the CPGs is made in the Contract Participation Goal Section of the Bills of Quantities and it is explicitly pointed out that all requirements in respect of the aforementioned are deemed to be priced thereunder and no additional claims in this regard shall be entertained:

#### **C3.6.1 Minimum Thirty Percent (30%) Mandatory Sub-contracting Contract Participation Goal**

##### **MINIMUM THIRTY PERCENT (30%) MANDATORY SUBCONTRACTING TO SMMES: IMPLEMENTATION OF PREFERENTIAL PROCUREMENT REGULATIONS 2017**

###### **30% Mandatory subcontracting is "not applicable" to this project.**

It is the requirement of the employer that the contractor enhances the use of local Small, Micro and Medium Enterprises (SMME's) in executing this contract, irrespective whether the 30% Participation Goal is applicable or not.

The thirty percent (30%) mandatory Sub-contracting shall be achieved in the execution of the contract. in terms of in accordance with the Preferential Procurement Policy Framework Act, 2000: Preferential Procurement Regulations, 2017 as published in the Government Gazette Notice No. 40553 of 20 January 2017.

- (a) SMME's involvement of at least **N/A** of the tender amount at the time of tender to be sourced from within **N/A km** radius of the project site with the intention to maximize use of local SMMEs within **N/A**,
- (b) SMME's involvement of at least **N/A** of the Tender Value to be sourced from within **N/Akm** radius of the project site.

Bidders are cautioned not to under-price items earmarked to be executed by SMMEs as adjustment to too low rates will not be entertained by the Employer.

Bidders to sub-contract a minimum of thirty percent (30%) of the tender amount including VAT at the time of tender (All inclusive, including VAT). to any one or more of the following categories:

- a. An EME or QSE
- b. An EME or QSE which is at least 51% owned by black people
- c. An EME or QSE which is at least 51% owned by black people who are youth
- d. An EME or QSE which is at least 51% owned by black people who are women
- e. An EME or QSE which is at least 51% owned by black people with disabilities
- f. An EME or QSE which is at least 51% owned by black people living in rural or underdeveloped areas or townships
- g. A co-operative which is at least 51% owned by black people
- h. An EME or QSE which is at least 51% owned by black people who are Military veterans
- i. More than one of the categories referred to in paragraphs (a) to (h).

Bidders to refer to the CSD for a list of prospective sub-contractors provided with the tender. The bidder to refer to the CSD website should the list provided be insufficient.

###### **Bidders must ensure that the sub-contractors conform to the following:**

- a. Possess relevant accreditation where applicable;
- b. Be registered with relevant bodies (CIDB, various Councils, etc.) where applicable;
- c. Possess necessary capabilities to deliver the sub-contracted work;
- d. Meet the requirements in terms of the stipulated designated groups; and
- e. Geographical located at the place where the project will be delivered. Geographical location must be determined using the following criteria:
  - Relevant Ward. If not available;
  - Relevant neighbouring Wards. If not available;
  - Relevant Local Municipality. If not available;
  - Relevant District Municipality. If not available;

- Relevant Metro. If not available;
- Relevant Province. If not available;
- Relevant Neighbouring Province. And If not available;
- Anywhere within the borders of South Africa.

It is the bidder's responsibility to source alternative SMMEs should the parties with whom agreements were entered into at the time of tendering either no longer exist or do not perform or render work of an acceptable standard, subject to the approval by the Employer. Failure to achieve the **minimum thirty percent (30%)** SMME participation based on the tender amount including VAT, will result in a **N/A** penalty on the amount of work on which there is no compliance (Excluding VAT), unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

### C3.6.2 Minimum Targeted Local Material Manufacturer Contract Participation Goal

**The Minimum Targeted Local Building Material Manufacturers CPG is "not applicable" to this project.**

It is the requirement of the employer that the contractor enhances the use of local Small, Micro and Medium Enterprise Local Material Manufacturers (SMME's) in executing this contract, irrespective whether a minimum percentage Participation Goals is applicable or not.

The Minimum Targeted Local Manufacturers of Material Contract Participation Goal, in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020.

A Targeted Local Material Manufacturer is a targeted enterprise that operates or maintains a factory or establishment that produces on its premises materials or goods required by the principal contractor for the performance of the contract.

Note: Adapted from SANS 10845-7:2015, definition 2.13

Preference shall be given to the Targeted Local Material Manufacturer where feasible in **N/A**, and provided that:

- (a) Such materials comply in all respects with the specific requirements of PW371 and SANS specifications,
- (b) The non-availability of such materials shall not adversely affect the desired progress of the specific works,
- (c) The use of such suppliers shall not constitute grounds for any claim for increased cost in respect thereof,
- (d) Materials of at least **N/A** of the total value of materials purchased excluding VAT to be sourced from within **N/A km** radius of the project site,
- (e) Material of at least **N/A** of the total value of materials purchased excluding VAT to be sourced from within **N/A km** radius of the project site.

Failure to achieve the minimum **N/A** Targeted Local Material Manufacturer participation expressed as a percentage of the original tender amount, excluding allowances and VAT, will result in a **N/A** penalty of the prorated targeted value of materials not complied with unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

### C3.6.3 Minimum Targeted-Local Building Material Suppliers Contract Participation Goal

**The Minimum Targeted Local Building Material Suppliers CPG is "not applicable" to this project.**

It is the requirement of the employer that the contractor enhances the use of local Small, Micro and Medium Enterprise Local Material Suppliers (SMME's) in executing this contract, irrespective whether a minimum percentage Participation Goals is applicable or not.

The Minimum Targeted Local Manufacturers of Material Contract Participation Goal shall be achieved in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract..

A targeted supplier is a targeted enterprise that

- a) owns, operates or maintains a store, warehouse or other establishment in which goods are bought, kept in stock and regularly sold to wholesalers, retailers or the public in the usual course of business; and
- b) Engages, as its principal business and in its own name, in the purchase and sale of goods.

Note: Adapted from SANS 10845-7:2015, definition 2.14

Preference shall be given to the local material suppliers where feasible in the **N/A**, and provided that:

- (a) Such materials comply in all respects with the specific requirements of PW371 and SANS specifications,
- (b) The none availability of such materials shall not adversely affect the desired progress of the specific works,
- (c) The use of such suppliers shall not constitute grounds for any claim for increased cost in respect thereof,
- (d) Materials of at least **N/A** of the total value of materials purchased excluding VAT to be sourced from within **N/A km** of the project site,
- (e) Material of at least **N/A** of the total value of materials purchased excluding VAT to be sourced from within **N/A km** of the project site.

Failure to achieve the minimum **insert applicable percentage, both in words and figures** Targeted Local Material Manufacturer participation expressed as a percentage of the original tender amount, excluding allowances and VAT, will result in a **insert applicable percentage, both in words and figures** penalty of the prorated targeted value of materials not complied with, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

### C3.6.4 Minimum Targeted Local Labour Skills Development Contract Participation Goal

**The Minimum Targeted Local Labour Skills Development CPG is "not applicable" to this project.**

It is the requirement of the employer that the contractor enhances the use of local labour in executing this contract. This is required to be done through the use of both traditional building techniques and labour-intensive construction techniques careful and considered construction planning and implemented in the project irrespective whether a minimum percentage Participation Goal is applicable or not.

The Minimum Targeted Local Skills Development Contract Participation Goal shall be achieved in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract..

Targeted labour: individuals who:

- a) are employed by the principal contractor, sub-contractor or targeted enterprises in the performance of the contract;
- b) are defined as the target group in the targeting data; and
- c) permanently reside in the target area or who are recognized as being residents of the target area on the basis of identification and association with and recognition by the residents of the target area.

Adapted from SANS 10845-7:2015, definition 2.12

Targeting of labour by skills categories is only permissible within categories of semi-skilled and unskilled labour.

Contract participation goals for semi-skilled and unskilled labour shall be limited to on-the-job training to targeted labour to enable such labour to master the basic work techniques required to undertake the work in accordance with the requirements of the contract and in a manner that does not compromise worker health and safety. In the case of targeted labour, the certification of records shall be in accordance with SANS 10845-8.

Beneficiaries will be sourced from the **insert applicable Ward/s, Municipal District, Town, City, Province** for the full duration of the Construction Period, employed by either the principal contractor, sub-contractors or targeted enterprises. The total number of working days to complete the Works amount to **insert number of working days as determined by the Construction Period** working days. The minimum CPG participation for Targeted Local Labour Skills Development is **insert applicable percentage, both in words and figures**, expressed as a percentage of the total number of working days required to complete the Works. The contractor shall attain or exceed the CPG in the performance of the contract. Failure to achieve the minimum Targeted Local Labour Skills Development CPG will result in a payment reduction of **R5 000** (Excluding VAT), per working day which training has not been provided to the workforce in attendance, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

### **C3.6.5 CIDB BUILD PROGRAMME: Minimum Targeted Enterprise Development Contract Participation Goal**

**The Minimum Targeted Enterprise Development CPG is "not applicable" to this project.**

The aim of this best practice standard for indirect targeting for enterprise development in accordance with the Standard for Indirect Targeting for Enterprise Development (published in Government Gazette 36190 of 25 February 2013), as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract. is to promote enterprise development by providing for a minimum contract participation goal (CPG) of **five percent (5%)** of the contract amount as defined in the Standard (Tender amount, excluding allowances and VAT on selected contracts to be undertaken by joint-venture partners or to be sub-contracted to developing contractors that are also to be beneficiaries of enterprise development support from the main contractor.

The lead partner or main contractor shall dedicate a **minimum five percent (5%)** of the tender value at the time of award, excluding allowances and VAT, to provide developmental support to targeted subcontractor or joint venture partner applicable to contracts in Grades 7 to 9, General Building and Civil Engineering contracts. Preference will be given to insert type of enterprises, e.g. General Building, Electrical, Mechanical, Plumbing, etc. .It could be either or any combination of all Enterprises.

The contractor shall attain or exceed the enterprise development goal in the performance of the contract. Failing to achieve the Participation Goal will result in A) a thirty percent (30%) penalty of the value not achieved, excluding VAT, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

#### C3.6.5.1 Criteria

The main or lead partner of the successful bidder shall:

- (a) There must be a needs analysis for indirect targeting and development or skill standard and should be development in at least any two developmental areas namely;
  - Administrative and cost control systems
  - construction management systems and plans
  - planning, tendering and programming
  - business; technical; procurement skills
  - legal compliance
  - credit rating/history; financial loan capacity/history
  - contractual knowledge
- (b) The above needs analysis shall be mutually agreed upon between contractor and targeted enterprise
- (c) The contractor shall appoint an enterprise development coordinator to:
  - perform needs analysis on the targeted enterprise to identify developmental goals
  - develop a project specific enterprise development plan to improve the targeted enterprise/s performance in the identified developmental areas
  - provide internal mentorship support to improve the targeted enterprise/s performance
  - monitor and submit to the employer's representative a monthly enterprise development report thereby reporting on the progress of the agreed development areas with the targeted enterprise/s
  - submit a project completion report to the Employer's representative for each targeted enterprise.

#### C3.6.5.2 Management

The contractor shall provide a competent person/s to provide internal mentorship to the Targeted Enterprise/s in the two agreed developmental areas.

#### C3.6.5.3 Competence Criteria for an Enterprise Development Co-ordinator

The enterprise development co-ordinator shall have the following competencies:

- Minimum experience of 5 years in the construction industry at Managerial level as a Site Agent, Contracts Manager, Site Manager, Construction Manager, Business Development Manager or Enterprise Development Manager.
- Minimum experience of 2 years in training and development in Building or Construction; and
- National Diploma or B Degree in the Built Environment or Business Management

#### C3.6.5.4 Format of Communications

The contractor shall submit to the Employer's Representative:

- *Project interim reports* in the specified format (**ED105P**) detailing interim values of the CPG that was achieved together with an assessment of the enterprise development support provided should be tabled and discussed at least monthly at progress meetings between employer's representative and the contractor;

- *Project completion report* in the specified format (**ED101P**) to the Employer's Representative for acceptance within 15 days of achieving practical completion. The report shall include the value of the CPG that was certified in accordance with the contract, cidb registration numbers of each and every targeted enterprise, and the value of the subcontracted works or of the joint venture entered into; and the participation parameter
- *Enterprise development declaration* (**ED104P**).

#### C3.6.5.5 The Key Personal

The contractor shall appoint an Enterprise Development Co-ordinator and a competent person/s to provide internal mentorship.

#### C3.6.5.6 Management Meetings

The contractor shall report to the Employer's Representative on the implementation and progress of the targeted enterprise development and CPG at monthly progress site meetings.

#### C3.6.5.7 Forms for contract administration

The contractor shall submit to the Employer's Representative the following proformas:

- Form ED 105P Project Interim Report
- Form ED 104P Enterprise Development Declaration
- Form ED 101P Project Completion Report

#### C3.6.5.8 Records

The contractor shall:

- keep records of the targeted enterprise development
- keep records of the payments made to the targeted enterprises in relation to the CPG.
- ensure all the documentation required in terms of the Standard is provided with each monthly progress payment certificate and according to a prescribed format where applicable.

#### C3.6.5.9 Payment Certificates

The contractor shall:

- achieve the measurable CPG and providing enterprise development support to the targeted enterprise/s as per the Standard.
- submit payment certificates to the Employer Representative at intervals determined in the Contract.

#### C3.6.5.10 Compliance requirements

##### **Non-compliance with the Best Practice Project Assessment Scheme**

The wording of regulation 27A of the cidb regulations makes provision for the Board to enforce the cidb code of conduct in the event of clients being found to be in breach of the best practice project assessment scheme.

- Not including the requirements of the cidb standards in the conditions of tender
- Not registering the award of contract on the cidb Register of Projects (RoP)
- Not reporting practical completion on the cidb Register of Projects (RoP)

#### 3.6.6 **CIDB BUILD PROGRAMME: Minimum Targeted Contract Skills Development Goal (CSDG)**

**The Minimum Targeted Contract Skills Development CPG is "not applicable" to this project.**

The contractor shall achieve or exceed in the performance of the contract the Contract Skills Development Goal (CSDG) established in the Standard for Developing Skills through Infrastructure Contracts (published in Government Gazette No 43495 of 3 July 2020, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.

Failing to achieve the targeted Contract Skills Development Goal will result in A) a **thirty percent (30%)** penalty of the value of the portion not achieved, excluding VAT, and B) the issuing of completion certificates only after the completion certificate of achieving the skills development goal, counter-signed by the relevant individuals has been submitted, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The contractor shall apportion the learners in the different construction activities based on the scope of work. The cost of accommodating learners will be determined by using Table 3 in the Standard and this cost will be used to determine the value in Rand and will be added to the provision for training as provided for in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule.

C3.6.6.1 Methodology

The contractor shall achieve the measurable contract skills development goal by providing opportunities to learners requiring structured workplace learning using one or a combination of any of the following in relation to work directly related to the contract or order:

Method 1: structured workplace learning opportunities for learners towards the attainment of a part or a full occupational qualification;

Method 2: structured workplace learning opportunities for apprentices or other artisan learners towards the attainment of a trade qualification leading to a listed trade (GG No. 35625, 31 August 2012) subject to at least sixty percent (60%) of the artisan learners being holders of public TVET college qualifications;

Method 3: work integrated learning opportunities for University of Technology or Comprehensive University students completing their national diplomas;

Method 4: structured workplace learning opportunities for candidates towards registration in a professional category by a statutory council listed in Table 1 above.

The contract skills participation goals, expressed in Rand, shall not be less than the contract amount multiplied by a percentage (%) factor given in Table 2 in the Standard for the applicable class of construction works.

*Table 2: Contracting skills development goals for different classes of engineering and construction works contracts*

| Class of construction works as identified in terms of Regulation 25 (3) of the Construction Industry Regulations 2004 |   | Construction skills development goal (CSDG) (%) |
|---|---|---|
| Designation   | Description                                   |   |
| CE  | Civil Engineering                             | 0.25  |
| CE and GB   | Civil engineering and General Building        | 0.375   |
| EE  | Electrical Engineering works (buildings)      | 0.25  |
| EP  | Electrical Engineering works (infrastructure) | 0.25  |

|    |                              |      |
|----|------------------------------|------|
| GB | General Building             | 0.5  |
| ME | Mechanical Engineering works | 0.25 |
| SB | Specialist                   | 0.25 |

The contractor shall apportion the learners in the different construction activities based on the scope of work. The cost of accommodating learners will be determined by using Table 3 in the Standard and this cost will be used to determine the value in Rand and will be added to the provision for training as provided for in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule.

Table 3: Notional Cost of Training per Headcount

Source: cidb Standard for Skills Development

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

Note: the required CPG will be recalculated based on the awarded tender amount and "Contract amount" once the beneficiaries have been appointed and actual costs are known. The notional cost of providing training opportunities will increase by CPI on an annual basis based on April CPI. Should the rates increase after bid award or during construction the rates will be adjusted as a re-measurable item.

- (a) (a) The successful contractor may employ part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates directly or through a Skills Development Agency (SDA), (A1 - List of cidb accredited SDAs).
- (b) The successful contractor must employ at least sixty percent (60%) of the learners from an FET / TVET college should the contractor select to have part/full occupational qualification learners and trade qualification learners contributing to the CSDG.
- (c) The successful contractor shall employ at least **insert applicable percentage, both in words and figures** from eligible part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates in the employment of the employer.
- (d) The successful contractor shall ensure that no single method shall contribute more than seventy five percent (75%) of the CSDG for the contract.
- (e) The successful contractor may only place thirty three percent (33%) employed employees or that of his subcontractors contributing to the CSDG.
- (f) The contractor shall employ at least sixty percent (60%) of the learners from a Public FET / TVET college should the contractor select to have trade qualification learners (Method 2) contributing to the CSDG.



- (g) One of the objectives of the project is to train **insert applicable number, both in words and figures** Occupational qualifications, trade qualification, work integrated learners – P1 and P2 learners, professional candidates.

#### C3.6.6.2 Management

- (a) The successful contractor must keep site records regarding the part/full occupational qualification learners', trade qualification learners', work integrated learners' or candidates' (delete that which is not applicable) progress, site attendance, hours worked and other relevant information as required by the Standard.
- (b) The successful contractor shall provide the required number of appropriately qualified mentors to the maximum number of part/full occupational qualification learners, trade qualification learners, work integrated learners in the proportion as specified in the Standard.
- (c) The successful contractor shall provide a supervisor to manage the training of the part/full occupational qualification learners, trade qualification learners, work integrated learners, candidates.
- (d) The successful contractor shall submit to the employer's representative a baseline training plan in the specified format (Pro-forma A2) for the part/full occupational qualification learners, trade qualification learners, work integrated learners, candidates within 30 days of start of the contract.
- (e) The successful contractor shall submit to the employer's representative project interim report in the specified format (Pro-forma A3) on the progress of each of part/full occupational qualification learner, trade qualification learner, work integrated learner, candidate every three months.
- (f) The successful contractor shall submit to the employer's representative the names and particulars in the specified format (Pro-forma A4) of the supervisor, mentors for the part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates within 30 days of start of the contract.
- (g) The successful contractor shall keep a daily record of all the part/full occupational qualification learners, trade qualification learners, work integrated learners, candidates on site and their daily activities and shall be made available to the employer's representative on request.
- (h) The successful contractor shall submit to the employer's representative the reports on the progress and status of the part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates with the monthly invoice for the payment certificate.
- (i) The successful contractor shall have health and safety inductions for all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates.
- (j) The successful contractor shall conduct entry and exit medical tests of all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates.
- (k) The successful contractor shall provide personal protective equipment (PPE) to all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates at the start of their employment on site.
- (l) Based on the agreed skills methods the contractor may employ part/full Occupational Qualification Learners and /or Trade Qualification Learners and/or Work Integrated Learners and/or Candidate directly or through a Skills Development Agency (SDA), training provider or skills development facilitator (Form A1 - List of cidb accredited SDAs). The contractor shall ensure that no more than one Method shall be applied to any individual concurrently in the calculation of the CSDG for the contract.

### C3.6.7 NATIONAL YOUTH SERVICE TRAINING AND DEVELOPMENT PROGRAMME (NYS)

**The National Youth Service Training and Development Programme is *"not applicable"* to this project.**

The programme shall be implemented in terms of the Implementation of the National Youth Service Programme under the Expanded Public Works (EPWP) and shall be priced in the CPG section of the Bills of Quantities. Monthly reports are to be submitted to the Employer's Representative.

Failure by the contractors to achieve the specified number to be trained in the NYS section of the CPG section within the Bills of quantities will result in a payment reduction as per bill of quantities per person, excluding VAT unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

### C3.6.8 LABOUR-INTENSIVE WORKS

**Labour Intensive Works is *"not applicable"* to this project.**

Where labour intensive work is specified in the Bill of Qualities and indicated by "LI" the contractor must price for and include in rates. Contractors are expected to use their initiative to identify additional activities that can be done labour-intensively to comply with the set minimum labour intensity target. Allowance must be made for submitting monthly reports illustrating the value of the works executed under Labour Intensive Works.

Failure by the contractor to achieve the specified value of the Labour Intensive Participation Goal as stipulated within the Bills of quantities will result in a thirty percent (30%) penalty of the value of the works not done by means of labour intensive methods, excluding VAT, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

Employer's objectives:

The employer's objectives are to deliver public infrastructure using labour-intensive methods in accordance with EPWP Guidelines.

Labour-intensive works:

Labour-intensive works shall be constructed/maintained using local workers who are temporarily employed in terms of the scope of work. A **thirty percent (30%)** penalty of the value of the works will be imposed on items where unauthorised use of plant was used to carry out work which was to be done labour-intensively.

Labour-intensive competencies of supervisory and management staff:

Contractors shall only engage supervisory and management staff in labour-intensive works that have completed the skills programme including Foremen/ Supervisors at NQF level 4 "National Certificate: Supervision of Civil Engineering Construction Processes" and Site Agent/ Manager at NQF level 5 "Manage Labour-Intensive Construction Processes" or equivalent QCTO qualifications (See Appendix C) at NQF outlined in Table 1

#### C3.6.8.1 GENERIC LABOUR-INTENSIVE SPECIFICATION

Contractors are referred to the Guidelines for the Implementation of Labour-intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP) for the generic labour-intensive specification applicable to the contract.

This specification establishes general requirements for activities which are to be executed by hand involving the following:

- trenches having a depth of less than 1.5 metres
- stormwater drainage
- roads
- sidewalks and non-motorised transport infrastructure
- water and sanitation

### **Precedence**

Where this specification is in conflict with any other standard or specification referred to in the Scope of Works to this Contract, the requirements of this specification shall prevail

### **Hand excavateable material**

Hand excavateable material is:

#### **a) Granular materials:**

- i) whose consistency when profiled may in terms of table 2 be classified as very loose, loose, medium dense, or dense; or
- ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 15 blows of a dynamic cone penetrometer is required to penetrate 100mm;

#### **b) Cohesive materials:**

- i) whose consistency when profiled may in terms of table 2 be classified as very soft, soft, firm, stiff and stiff / very stiff; or
- ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 8 blows of a dynamic cone penetrometer is required to penetrate 100mm;

### **Note**

- 1) A boulder is material with a particle size greater than 200mm, a cobble and gravel is material between 60 and 200mm.
- 2) A dynamic cone penetrometer is an instrument used to measure the in-situ shear resistance of a soil comprising a drop weight of approximately 10 kg which falls through a height of 400mm and drives a cone having a maximum diameter of 20mm (cone angle of 60° with respect to the horizontal) into the material being used.

| <b>Table 2: Consistency of materials when profiled</b> |  |                           |   |
|--|--|---------------------------|---|
| <b>GRANULAR MATERIALS</b>                              |  | <b>COHESIVE MATERIALS</b> |   |
| <b>CONSISTENCY</b>                                     | <b>DESCRIPTION</b>   | <b>CONSISTENCY</b>        | <b>DESCRIPTION</b>  |
| Very loose   | Crumbles very easily when scraped with a geological pick.  | Very soft                 | Geological pick head can easily be pushed in as far as the shaft of the handle.   |
| Loose  | Small resistance to penetration by sharp end of a geological pick.   | Soft                      | Easily dented by thumb; sharp end of a geological pick can be pushed in 30-40 mm; can be moulded by fingers with some pressure.   |
| Medium dense   | Considerable resistance to penetration by sharp end of a geological pick.                                      | Firm                      | Indented by thumb with effort; sharp end of geological pick can be pushed in up to 10 mm; very difficult to mould with fingers; can just be penetrated with an ordinary hand spade. |
| Dense  | Very high resistance to penetration by the sharp end of a geological pick; requires many blows for excavation. | Stiff                     | Can be indented by thumb-nail; slight indentation produced by pushing geological pick point into soil; cannot be moulded by fingers.  |
| Very dense   | High resistance to repeated blows of a geological pick.  | Very stiff                | Indented by thumb-nail with difficulty; slight indentation produced by blow of a geological pick point.   |

### **Trench excavation**

All hand excavateable material in trenches having a depth of less than 1,5 metres shall be excavated by hand.

**Compaction of backfilling to trenches (areas not subject to traffic)**

Backfilling to trenches shall be placed in layers of thickness (before compaction) not exceeding 100mm. Each layer shall be compacted using hand stampers;

- a) to ninety percent (90%) Mod AASHTO;
- b) such that in excess of 5 blows of a dynamic cone penetrometer (DCP) is required to penetrate 100 mm of the backfill, provided that backfill does not comprise more than ten (10%) gravel of size less than 10mm and contains no isolated boulders, or
- c) such that the density of the compacted trench backfill is not less than that of the surrounding undisturbed soil when tested comparatively with a DCP.

**Excavation**

All excavateable material including topsoil classified as hand excavateable shall be excavated by hand. Harder material may be loosened by mechanical means prior to excavation by hand. Any material which presents the possibility of danger or injury to workers shall not be excavated by hand.

**Clearing and grubbing**

Grass and bushes shall be cleared by hand.

**Shaping**

All shaping shall be undertaken by hand.

**Loading**

All loading shall be done by hand. Haulage equipment should be selected in a manner that allows loading by hand to the greatest extent possible.

**Haul**

Excavation material shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150m.

**Offloading**

All material, however transported, is to be off-loaded by hand, unless tipper-trucks are utilised for haulage.

**Spreading**

All material shall be spread by hand.

**Compaction**

Small areas may be compacted by hand provided that the specified compaction is achieved. Appropriate rollers should be used where higher (than can be achieved by hand) levels of compaction are required or for large areas.

**Grassing**

All grassing shall be undertaken by sprigging, sodding, or seeding by hand.

**Stone pitching and rubble concrete masonry**

All stone required for stone pitching and rubble concrete masonry, whether grouted or dry, must to be collected, loaded, off loaded and placed by hand.

Sand and stone shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150m.

Grout shall be mixed and placed by hand.

**Manufactured Elements**

Elements manufactured or supplied by the Contractor, such as manhole rings and cover slabs, precast concrete planks and pipes, masonry units and edge beams shall not individually, have a mass of more than 320kg. Where the mass of an element exceeds 55 kg, consideration should be given to the size of the element relative to its total mass related to the number of workers who would be needed to lift such mass



### **C3.7 SUBMISSION OF ACCRUAL REPORTS**

The Contractor shall submit accrual reports to the client representative at the end of March and September each year for the duration of the Service Contract period from the date of appointment up to and including project closeout. This is to ensure that PMTE complies with the accounting framework GRAP, which requires that PMTE disclose all its accruals as at the end of each reporting date.

### **C3.8 SUBMISSION OF MONTHLY LOCAL MATERIAL UTILISATION REPORT (LOCAL CONTENT)**

The contractors shall be responsible for record keeping, documenting and submission of monthly local material utilization report with supporting documentation to the Employer's representative within 7 working days of the beginning of the successive month, in terms of DTI&C designated industry/sector/sub-sector schedule as per the PA36 and Annexures C attached to the tender document. The final percentage achievement to be reconciled upon completion of the project and form part of the final account.

Failure by the contractors to achieve the specified percentage of local content per designated industry/sector/sub-sector as listed will result in a thirty percent thirty percent (30%) penalty of the value not achieved, excluding VAT, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control. Allowance must be made for submitting monthly reports illustrating the value of local material utilisation report.

## Examples of calculating CPGs and related penalties

CPGs values are based on the Tender Amount at the time of the award. Determining the actual values is based either on the Tender Amount including allowances and Vat or the Tender Amount at the time of award excluding allowances and VAT, where Allowances include the following:

- Provisional amounts
- CPG allowances
- Nominated and/or selected subcontractors
- Contract price adjustment (Not provided for within the B of Q by NDPWI)
- Contingency amounts (Not provided for within the B of Q by NDPWI)

**CPG values in the CPG Bill of Quantities Section will be recalculated based on the “Tender Amount” or the “Contract Amount” which ever applicable and the provisional amounts adjusted accordingly. Sanctions (penalties) are applicable to all CPGs where the contractor fails to achieve the minimum specified requirements, unless the contractor can prove to the Employer’s satisfaction that the non-achievement was beyond his/her control. No penalties will be applied should the CPG value, based on the original “Tender Amount” or the “Contract Amount”, has been achieved.**

### 1.1. 30% SMME mandatory subcontracting CPG

When applicable, a minimum of 30% of the total tender amount at the time of award, including all allowances and VAT are to be subcontracted to SMMEs.

#### CPG calculation example:

“Tender Amount” = R150 mil

CPG 30% subcontracting value = R45 Mil

#### Calculation of penalty:

Percentage penalty applicable = 5% as specified in the Scope of Works (PG01.1)

CPG Achieved = R30 Mil (R15 Mil shortfall)

Penalty = R15 Mil x 5% = R750 000 Excl. VAT

### 1.2 Targeted Local Building Material Manufacturers CPG

When applicable, the CPG is expressed as a percentage of the “Contract Amount”, i.e. the Tender Amount at the time of award excluding allowances and VAT.

#### CPG calculation example:

“Tender Amount” = R150 Mil all inclusive of allowances and VAT

“Contract Amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)

CPG to be achieved = 5% as specified in the Scope of Works (PG01.1)

CPG target value = R130 Mil x 5% = R 6,5 Mil (Value of material to be purchased from local manufacturers, excluding VAT)

#### Calculation of penalty:

Percentage penalty applicable = 10% as specified in the Scope of Works (PG01.1)

CPG target value = R6,5 Mil excluding VAT

CPG Achieved = R5,5 Mil (R1 Mil shortfall) excluding VAT

Penalty = R1 Mil x 10% = R100 000 excluding VAT

### 1.3 Targeted Local Building Material Suppliers CPG

When applicable, the CPG is expressed as a percentage of the “Contract Amount”, i.e. the Tender Amount at the time of award excluding allowances and VAT.

#### CPG calculation example:

“Tender Amount” = R150 Mil all inclusive of allowances and VAT

“Contract Amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)

CPG to be achieved = 5% as specified in the Scope of Works (PG01.1)



CPG target value = R130 Mil x 5% = R 6,5 Mil (Value of material to be purchased from local suppliers, excluding VAT)

Calculation of penalty:

Percentage penalty applicable = 20% as specified in the Scope of Works (PG01.1)

CPG target value = R6,5 Mil excluding VAT

CPG Achieved = R5,5 Mil (R1 Mil shortfall) excluding VAT

Penalty = R1 Mil x 20% = R200 000 excluding VAT

#### **1.4 Targeted Local Labour Skills Development CPG**

When applicable, the CPG is expressed as a percentage of the total number working days required to complete the Works.

CPG calculation example:

“Tender Amount” = R150 Mil all inclusive of allowances and VAT

“Contract amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)

Number of working days required to complete the Works based on the construction period = 600 days

CPG percentage participation to be achieved = 30% as specified in the Scope of Works (PG01.1)

Required number of working days training to be provided = 180 days (600 x 30%)

Calculation of penalty:

Payment reduction = R 5 000 per day for not providing training as specified in the Scope of Works (PG01.1)

CPG = 600 working days x 30% = 180 working days training to be provided

CPG Achieved = 160 days (20 days shortfall where no training was provided)

Penalty = 20 days x R5 000 payment reduction per day= R100 000 excluding VAT

#### **1.5 National Youth Service Programme (NYS) CPG**

When applicable, a separate NYS Bill of Quantities will be included in the tender documentation will indicate the number of beneficiaries to be trained.

Calculation of penalty:

Payment reduction per person not trained as stipulated in the NYS Bill of Quantities = R 2 500 per person.

Total number of NYS Beneficiaries as stipulated in the NYS Bill of Quantities = 25

Total Number of NYS beneficiaries trained = 20 (shortfall of 5 beneficiaries)

Penalty = 5 x R2 500 = R12 500 Excl. VAT

#### **1.6 Labour Intensive Works CPG**

When applicable, the work to be done by way of Labour intensive methods are specified in the Bills of Quantities with a “LI”.

CPG calculation example:

“Tender Amount” = R150 Mil all inclusive of allowances and VAT

“Contract Amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)

CPG value = R10 Mil (Total value of labour-intensive works specified in the Bills of Quantities)

Calculation of penalty:

CPG value = R10 Mil

Percentage penalty applicable = 30% as specified in the PG01.1 Scope of Work

CPG Achieved = 9 Mil (R1 Mil shortfall)

Penalty = R1 Mil x 30% = R300 000 Excl. VAT

#### **1.7 Cidb BUILD Programme: Enterprise Development**

When applicable, the Enterprise Development CPG expressed as a percentage of the “Contract amount” = Tender amount at the time of award excluding allowances and VAT. Failure to achieve the minimum Targeted Local Labour Skills Development CPG will result in a payment reduction of an amount specified in the Scope of Works (PG01.1) per working day where training was not provided.

The monetary value of training to be provided is stipulated in the CPG BoQ section. The number of beneficiaries to be trained is dependent on the “Contract Amount” as well the number of beneficiaries appointed which will generally resort under the Grade 1 and 2 cidb categories. The provisional amount will therefore be adjusted in terms of the “contract Amount”, the number of beneficiaries to be trained and the actual cost for providing the training.

**Part 1: Calculation of 5% CPG example:**

“Tender Amount” = R150 Mil all inclusive of allowances and VAT

“Contract Amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)

CPG percentage participation to be achieved = 5% as specified in the Scope of Works (PG01.1)

CPG value = R6,5 Mil (Value of work to be subcontracted to emerging enterprises)

**Calculation of penalty**

Percentage penalty applicable = 30% as specified in the Scope of Works (PG01.1)

CPG Minimum 5% = R6,5 Mil

Achieved = R5,5 Mil (Only subcontracted work to the value of R5,5 Mil, i.e. R1 Mil shortfall)

**Penalty** = R1 Mil x 30% = R300 000 Excl. VAT

**Part 2: Calculations in terms of training to be done:**

The number of enterprises to be developed is subject to the contract amount and the apportionment of the work as per Example 1 below.

Number of enterprises to be trained = 6 x 1 GB subcontractors

Total cost for training = R 1 660 000

**Calculation of penalty**

Total number of enterprises to be trained = 6

Total number trained = 4 (2 Shortfall)

Training cost per beneficiary = R1 660 000 / 6 = R 276 666,67 per beneficiary

**Penalty** = R 276 666,67 x 2 x 30% = R166 000 Excl. VAT

| B of Q Item | Description   | Unit        | Rate        | Quantity                  | Amount (R)       |
|-------------|---|-------------|-------------|---------------------------|------------------|
| <b>5</b>    | <b>Enterprise Development</b>   |             |             |                           |                  |
| 5.1         | Enterprise Development of Targeted Enterprise or JV partners                          |             |             |                           |                  |
| 5.1.1       | Appointment of training co-ordinator  | Per Quarter | 45 000      | 8                         | 360 000          |
| 5.1.2       | Appointment of Mentor /Training Service provider                                      | Per Quarter | 135 000     | 8                         | 1 080 000        |
| 5.1.3       | Needs Analysis and Enterprise Development Plan per Targeted Enterprise                | No.         | 5 000       | 6                         | 30 000           |
| 5.1.4       | Monitoring and Interim reporting per targeted enterprise                              | Per Quarter | 20 000      | 8                         | 160 000          |
| 5.1.5       | Project Completion report per Targeted Enterprise                                     | No.         | 5 000       | 6                         | 30 000           |
|             | <b>Provisional Sum to be carried over to CPG bill of quantities</b>                   |             |             |                           | <b>1 660 000</b> |
|             | “Contract amount” Tender amount excl. allowances and VAT.                             |             | 130 000 000 |                           |                  |
|             | CPG Monetary value (5%) to be subcontracted to beneficiaries for training             |             | 6 500 000   |                           |                  |
|             | No of enterprises based on the CPG value  | 6           |             | Grade 1 / 2<br>GB/CE,ETC. |                  |
|             | Contract period (months)  | 24          |             |                           |                  |
|             | <b>Note: Rates to be determined by PQS and adjusted to accepted quotation amounts</b> |             |             |                           |                  |

**1.8 Cidb BUILD Programme: Skills Development (Principal contractor including subcontractors and consultants)**

When applicable, the contract skills development participation goals, expressed in Rand, shall be no less than the “contract amount” multiplied by a percentage (%) factor for the applicable class of construction works.

The monetary value of training to be provided is stipulated in the CPG BoQ section. The number of beneficiaries to be trained is dependent on the “Contract Amount” as well the number of beneficiaries appointed which will generally resort under the Grade 1 and 2 cidb categories. The provisional amount will therefore be adjusted in terms of the “Contract Amount”, the number of beneficiaries to be trained from which *Method* and the actual cost for providing the training.

## CPG Calculation

### Table 2: Contracting skills development goals for different classes of engineering and construction works contracts

Source: cidb Standard for Developing Skills through Infrastructure Contracts as published in the Government Gazette Notice No. 43495 of 3 July 2020 (Page 7)

| Class of construction works as identified in terms of Regulation 25 (3) of the Construction Industry Regulations 2004 |   | Construction skills development goal (CSDG) (%) |
|---|---|---|
| Designation   | Description                                   |   |
| CE  | Civil Engineering                             | 0.25  |
| CE and GB   | Civil engineering and General Building        | 0.375   |
| EE  | Electrical Engineering works (buildings)      | 0.25  |
| EP  | Electrical Engineering works (infrastructure) | 0.25  |
| GB  | General Building                              | 0.5   |
| ME  | Mechanical Engineering works                  | 0.25  |
| SB  | Specialist                                    | 0.25  |

“Contract amount” = Tender amount at the time of award excluding allowances and expenses, and VAT

### Contractor CPG:

CPG calculation

“Contract amount” x factor from Table 3 above.

### CPG calculation example:

“Tender Amount” = R150 Mil for GB, all inclusive of allowances and VAT

“Contract Amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)

Factor for GB = 0,5% (as per Table 2 above)

CPG in R value = R130 Mil x 0,5% = R650 000 i.e. total cost of training to amount to R650 000

### Calculation of penalty:

Percentage penalty applicable = 30% as specified in the Scope of Works (PG01.1)

CPG value = R650 000

Achieved = R550 000 = R100 000 Shortfall

Penalty = R100 000 x 30% = R30 000 Excl. VAT

### Calculations based on “Contract Amount” after bid award and after bid award and appointment of beneficiaries

Actual CPG training requirement value after award upon selecting method/s of training and appointment of beneficiaries = R676 000 (Table 4 below) and the provisional amount allowed for to be adjusted accordingly. The new monetary value of training required will then form the basis for determining penalties applicable. No penalties will be applied should the CPG value, based on the “Contract Amount” be achieved.

Table 4: Notional cost recalculation upon appointment of beneficiaries.

Source: cidb Standard for Developing Skills through Infrastructure Contracts as published in the Government Gazette Notice No. 43495 of 3 July 2020 (Page 10)

| Skills Types  | Number of learners | Notional Cost / Learner / Quarter | Notional cost / learner / year | Total Notional Cost over 12 months Contract |
|---|--------------------|-----------------------------------|--------------------------------|---|
| <b>Method 2:</b> Workplace learning opportunities, with unemployed TVET graduates | 2                  | R23 000                           | R92 000                        | R184 000                                    |
| <b>Method 3:</b> Candidacy for an unemployed learner with a 3-year qualification  | 2                  | R61 500                           | R246 000                       | R492 000                                    |
| Total   | 4                  |                                   |                                | R676 000                                    |

Note: the required CPG will be recalculated based on the awarded Tender amount and “Contract Amount” once the beneficiaries have been appointed and actual costs are known

Note: The notional cost of providing training opportunities will increase by CPI on an annual basis based on April CPI as published by Stats SA. The rates will be adjusted as an adjustment to the provisional amounts should the rates increase after bid award or during the construction period.

## **PART C4 SITE INFORMATION**



## PG-03.1 (EC) SITE INFORMATION – GCC (2010) 2<sup>nd</sup> Edition 2010

|                |   |         |        |               |
|----------------|---|---------|--------|---------------|
| Project title: | <i>Dordrecht Prison: Repairs to faulty electrical supply and equipment.</i> |         |        |               |
| Tender no:     | MTH59/2022  | WCS no: | 044256 | Reference no: |

### C4 Site Information

#### Locations of the Works

The proposed site is situated in the center of Dordrecht town. It is located in the area of jurisdiction of the Emalahleni Local Municipality in the Chris Hani District in EC Province, South Africa.

**Latitude: 31°37'15.94"**

**Longitude: 27°05'19.71"**

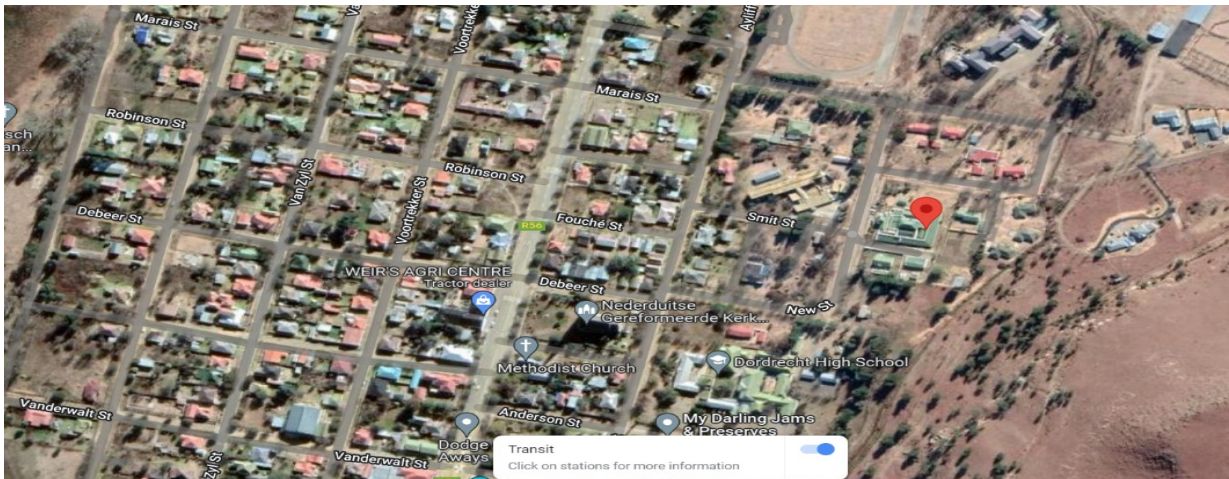


Figure 1: Locality Map showing site location (in red point) in relation to greater Dordrecht area.



Figure 1: Aerial View of Dordrecht Correctional Centre



**public works**

Department:  
Public Works  
REPUBLIC OF SOUTH AFRICA

**SUPPLEMENTARY SPECIFICATION**

**FOR THE**

**ELECTRICAL INSTALLATION**

**OF A**

**COMPREHENSIVE SERVICE**

**AUGUST 2022**

SUPPLEMENTARY SPECIFICATION FOR THE ELECTRICAL INSTALLATION  
OF A COMPREHENSIVE SERVICE

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AT

DORDRECHT CORRECTIONAL CENTRE, DORDRECHT, EASTERN CAPE

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**CONSISTING OF:**

- PART 1 : GENERAL ELECTRICAL WORK SPECIFICATION**
- PART 2 : INSTALLATION DETAILS**
- PART 3 : QUALITY SPECIFICATION FOR MATERIALS AND EQUIPMENT**
- PART 4 : BILL OF QUANTITIES**
- PART 5 : ELECTRICAL WORK MATERIAL SCHEDULE**
- PART 6 : DRAWINGS SCHEDULE**



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# SPECIFICATION FOR ELECTRICAL WORK

## PART 1 - GENERAL

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## **PART 1 - GENERAL**

### **1 TESTS**

After completion of the works and before practical completion is achieved, a full test will be carried out on the installation for a period of sufficient duration to determine the satisfactory working thereof. During this period the installations will be inspected and the Contractor shall make good, to the satisfaction of the Principle Agent/Electrical Engineer or the employer, any defects which may arise.

The Contractor shall provide all instruments and equipment required for testing and any water, power and fuel required for the commissioning and testing of the installations at completion.

### **2 MAINTENANCE OF INSTALLATIONS**

With effect from the date of the Practical completion Certificate the Contractor shall at his own expense undertake the regular servicing of the installation during the maintenance period and shall make all adjustments necessary for the correct operation thereof.

If during the said period the installations is not in working order for any reason for which the Contractor is responsible, or if the installations develops defects, he shall immediately upon being notified thereof take steps to remedy the defects and make any necessary adjustments.

Should such stoppages however be so frequent as to become troublesome, or should the installations otherwise prove unsatisfactory during the said period the Contractor shall, if called upon by the Principle Agent/Electrical Engineer or the Employer, at his own expense replace the whole of the installations or such parts thereof as the Principal Agent/Electrical Engineer or the Employer may deem necessary with apparatus specified by the Principal Agent/Electrical Engineer or the Employer.

### **3 REGULATIONS**

The installation shall be erected and tested in accordance with the Acts and Regulations as indicated in the scope of works

### **4 NOTICES AND FEES**

The Contractor shall give all notices required by and pay all necessary fees, including any inspection fees, which may be due to the local Supply Authority.

On production of the official account, only the net amount of the fee charged by the Supply Authority for connection of the installation to the supply mains, will be refunded to the Contractor by the Employer.

### **5 SCHEDULE OF FITTINGS**

In all instances where schedule of light, socket outlet and power points are attached to or included on the drawings, these schedules are to be regarded as forming part of the specification.

### **6 QUALITY OF MATERIALS**

Only materials of first class quality shall be used and all materials shall be subject to the approval of the Employer. Departmental specifications for various materials to be used on this Contract are attached to and form part of this specification.

Wherever applicable the material is to comply with the relevant South African Bureau of Standards, specifications, or to IEC Specifications, where no SANS Specifications exist.

Materials wherever possible, must be of South African manufacture.

### **7 CONDUIT AND ACCESSORIES**

The type of conduit and accessories required for the service, i.e. whether the conduit and accessories shall be of the screwed type, plain-end type or of the non-metallic type and whether metallic conduit shall be

black enamelled or galvanised, is specified in Part 2 of this specification.

Unless other methods of installation are specified for certain circuits, the installation shall be in conduit throughout. No open wiring in roof spaces or elsewhere will be permitted.

The conduit and conduit accessories shall comply fully with the applicable SANS specifications as set out below and the conduit shall bear the mark of approval of the South African Bureau of Standards.

- a) Screwed metallic conduit and accessories: SANS 61386-1 and 21.
- b) Plain-end metallic conduit and accessories: SANS 61386-1 and 21.
- c) Non-metallic conduit and accessories: SANS 61386-1 and 21.

All conduit fittings except couplings, shall be of the inspection type. Where cast metal conduit accessories are used, these shall be of malleable iron. Zinc base fittings will not be allowed.

Bushes used for metallic conduit shall be brass and shall be provided in addition to locknuts at all points where the conduit terminates at switchboards, switch-boxes, draw-boxes, etc.

Draw-boxes are to be provided in accordance with the "Wiring Code" and wherever necessary to facilitate easy wiring.

For light and socket outlet circuits, the conduit used shall have an external diameter of 20mm. In all other instances the sizes of conduit shall be in accordance with the "Wiring Code" for the specified number and size of conductors, unless otherwise directed in part 2 of this specification or indicated on the drawings.

Only one manufactured type of conduit and conduit accessories will be permitted throughout the installation.

Running joints in screwed conduit are to be avoided as far as possible and all conduit systems shall be set or bent to the required angles. The use of normal bends must be kept to a minimum with exception of larger diameter conduits where the use of such bends is essential.

All metallic conduit shall be manufactured of mild steel with a minimum thickness of 1,2mm for plain-end conduit and 1,6mm in respect of screwed conduit.

Under no circumstances will conduit having a wall thickness of less than 1,6mm be allowed in screed laid on top of concrete slabs.

Bending and setting of conduit must be done with special bending apparatus manufactured for the purpose and which are obtainable from the manufacturers of the conduit systems. Damage to conduit resulting from the use of incorrect bending apparatus or methods applied must on indication by the Department's inspectorate staff, be completely removed and rectified and any wiring already drawn into such damaged conduits must be completely renewed at the Contractor's expense.

Conduit and conduit accessories used for flame-proof or explosion proof installations and for the suspension of luminaires as well as all load bearing conduit shall in all instances be of the metallic screwed type.

All conduit and accessories used in areas within 50 km of the coast shall be galvanised to SANS 32 and SANS 121.

Tenderers must ensure that general approval of the proposed conduit system to be used is obtained from the local electricity supply authority prior to the submission of their tender. Under no circumstances will consideration be given by the Department to any claim submitted by the Contractor, which may result from a lack of knowledge in regard to the supply authority's requirements.

## **8 CONDUIT IN ROOF SPACES**

Conduit in roof spaces shall be installed parallel or at right angles to the roof members and shall be secured at intervals not exceeding 1,5m by means of saddles screwed to the roof timbers.

Nail or crampets will not be allowed.

Where non-metallic conduit has been specified for a particular service, the conduit shall be supported and fixed with saddles with a maximum spacing of 450 mm. The Contractor shall supply and install all additional supporting timbers in the roof space as required.

Under flat roofs, in false ceilings or where there is less than 0,9m of clearance, or should the ceilings be insulated with glass wool or other insulating material, the conduit shall be installed in such a manner as to allow for all wiring to be executed from below the ceilings.

Conduit runs from distribution boards shall, where possible terminate in fabricated sheet steel draw-boxes installed directly above or in close proximity to the boards.

## **9 SURFACE MOUNTED CONDUIT**

Wherever possible, the conduit installation is to be concealed in the building work; however, where unavoidable or otherwise specified under Part 2 of the specification, conduit installed on the surface must be plumbed or levelled and only straight lengths shall be used.

The use of inspection bends is to be avoided and instead the conduit shall be set uniformly and inspection coupling used where necessary.

No threads will be permitted to show when the conduit installation is complete, except where running couplings have been employed.

Running couplings are only to be used where unavoidable, and shall be fitted with a sliced couplings as a lock nut.

Conduit is to be run on approved spaced saddles rigidly secured to the walls.

Alternatively, fittings, tees, boxes, couplings etc., are to be cut into the surface to allow the conduit to fit flush against the surface. Conduit is to be bedded into any wall irregularities to avoid gaps between the surface and the conduit.

Crossing of conduits is to be avoided, however, should it be necessary purpose-made metal boxes are to be provided at the junction. The finish of the boxes and positioning shall be in keeping with the general layout.

Where several conduits are installed side by side, they shall be evenly spaced and grouped under one purpose-made saddle.

Distribution boards, draw-boxes, industrial switches and socket outlets etc., shall be neatly recessed into the surface to avoid double sets.

In situations where there are no ceilings the conduits are to be run along the wall plates and the beams.

Painting of surface conduit shall match the colour of the adjacent wall finishes.

Only approved plugging materials such as aluminium inserts, fibre plugs, plastic plugs, etc., and round-head screws shall be used for fixing saddles, switches, socket outlets, etc., to walls, wood plugs and the plugging in joints in brick walls are not acceptable.

## **10 CONDUIT IN CONCRETE SLABS**

In order not to delay building operations the Contractor must ensure that all conduits and other electrical equipment which are to be cast in the concrete columns and slabs are installed in good time.

The Contractor shall have a representative in attendance at all times when the casting of concrete takes place.

Draw-boxes, expansion joint boxes and round conduit boxes are to be provided where necessary. Sharp

bends of any nature will not be allowed in concrete slabs.

Draw and/or inspection boxes shall be grouped under one common cover plate, and must preferably be installed in passages or male toilets.

All boxes, etc., are to be securely fixed to the shuttering to prevent displacement when concrete is cast. The conduit shall be supported and secured at regular intervals and installed as close as possible to the neutral axis of concrete slabs and/or beams.

Before any concrete slabs are cast, all conduit droppers to switchboards shall be neatly spaced and rigidly fixed.

## **11 FLEXIBLE CONNECTIONS FOR CONNECTING UP OF STOVES, MACHINES, ETC.**

Flexible tubing connections shall be of galvanised steel construction, and in damp situations of the plastic sheathed galvanised steel type. Other types may only be used subject to the prior approval of the Department's site electrical representative.

Connectors for coupling onto the flexible tubing shall be of the gland or screw-in types, manufactured of either brass or cadmium or zinc plated mild steel, and the connectors after having been fixed onto the tubing, shall be durable and mechanically sound.

Aluminium and zinc alloy connectors will not be acceptable.

## **12 WIRING:**

Except where otherwise specified in Part 2 of this specification, wiring shall be carried out in conduit throughout. Only one circuit per conduit will be permitted.

No wiring shall be drawn into conduit until the conduit installation has been completed and all conduit ends provided with bushes. All conduits to be clear of moisture and debris before wiring is commenced.

Unless otherwise specified in Part 2 of this specification or indicated on the service drawings, the wiring of the installation shall be carried out in accordance with the "Wiring Code". Further to the requirements concerning the installation of earth conductors to certain light points as set out in the "Wiring Code", it is a specific requirement of this document that where plain-end metallic conduit or non-metallic conduit has been used, earth conductors must be provided and drawn into the conduit with the main conductors to all points, including all luminaires and switches throughout the installation.

Wiring for lighting circuits is to be carried out with 1,5mm<sup>2</sup> conductors and a 1,5mm<sup>2</sup>-earth conductor. For socket outlet circuits the wiring shall comprise 4mm<sup>2</sup> conductors and a 2,5mm<sup>2</sup>-earth conductor. In certain instances, as will be directed in Part 2 of this specification, the sizes of the aforementioned conductors may be increased for specified circuits. Sizes of conductors to be drawn into conduit in all other instances, such as feeders to distribution boards, power points etc., shall be as specified elsewhere in this specification or indicated on the drawings. Sizes of conductors not specified must be determined in accordance with the "Wiring Code".

The loop-in system shall be followed throughout, and no joints of any description will be permitted.

The wiring shall be done in PVC insulated 600/1000 V grade cable to SANS 1507.

Where cable ends connect onto switches, luminaires etc., the end strands must be neatly and tightly twisted together and firmly secured. Cutting away of wire strands of any cable will not be allowed.

## **13 SWITCHES AND SOCKET OUTLETS**

All switches and switch-socket outlet combination units shall conform to the Department Quality Specifications, which form part of this specification.

No other than 16 A 3 pin sockets are to be used, unless other special purpose types are distinctly specified or shown on the drawings.

All light switches shall be installed at 1,4m above finished floor level and all socket outlets as directed in the Schedule of Fittings which forms part of this specification or alternatively the height of socket outlets may be indicated on the drawings.

#### **14 SWITCHGEAR**

Switchgear, which includes circuit breakers, iron-clad switches, interlocked switch-socket outlet units, contactors, time switches, etc., is to be in accordance with the Departmental Quality Specifications which form part of this specification and shall be equal and similar in quality to such brands as may be specified.

For uniform appearance of switchboards, only one approved make of each of the different classes of switchgear mentioned in the Quality Specifications shall be used throughout the installations.

#### **15 SWITCHBOARDS**

All boards shall be in accordance with the types as specified, be constructed according to the detail or type drawings and must be approved by the Employer before installation.

In all instances where provision is to be made on boards for the supply authority's main switch and/or metering equipment the contractor must ensure that all requirements of the authorities concerned in this respect are met.

Any construction or standard type aboard proposed, as an alternative to that specified must have the prior approval of the Employer.

All busbars, wiring, terminals, etc., are to be adequately insulated and all wiring is to enter the switchgear from the back of the board. The switchgear shall be mounted within the boards to give a flush front panel. Cable and boxes and other ancillary equipment must be provided where required.

Clearly engraved labels are to be mounted on or below every switch. The working of the labels in English, is to be according to the lay-out drawings or as directed by the Electrical Engineer and must be confirmed on site. Flush mounted boards to be installed with the top of the board 2,0m above the finished floor level.

#### **16 WORKMANSHIP AND STAFF**

Except in the case of electrical installations supplied by a single-phase electricity supply at the point of supply, an accredited person shall exercise general control over all electrical installation work being carried out.

The workmanship shall be of the highest grade and to the satisfaction of the Employer.

All inferior work shall, on indication by the Employer's inspecting officers, immediately be removed and rectified by and at the expense of the Contractor.

#### **17 VERIFICATION AND CERTIFICATION OF ELECTRICAL INSTALLATION (CERTIFICATE OF COMPLIANCE AND TEST REPORT**

On completion of the service, a certificate of compliance must be issued to the Principal Agent/Electrical Engineer or Employer in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993) in the format as set out in SANS 10142-1 & 2.

#### **18 EARTHING OF INSTALLATION**

##### **Main earthing**

The type of main earthing must be as required by the supply authority if other than the Employer, and in any event as directed by the Principal Agent/Electrical Engineer, who may require additional earthing to meet test standards.

Where required an earth mat shall be provided, the minimum size, unless otherwise specified, being 1,0m

x 1,0m and consisting of 4mm diameter hard-drawn bare copper wires at 250mm centres, brazed at all intersections.

Alternatively or additionally earth rods or trench earths may be required as specified or directed by the Electrical Engineer.

Installations shall be effectively earthed in accordance with the "Wiring Code" and to the requirements of the supply authority. All earth conductors shall be stranded copper with or without green PVC installation.

Connection from the main earth bar on the main board must be made to the cold water main, the incoming service earth conductor, if any and the earth mat or other local electrode by means of 12mm x 1,60 mm solid copper strapping or 16 mm<sup>2</sup> stranded (not solid) bare copper wire or such conductor as the Department's representative may direct. Main earth copper strapping where installed below 3m from ground level, must be run in 20 mm diameter conduit securely fixed to the walls.

All other hot and cold water pipes shall be connected with 12mm x 0,8mm perforated for solid copper strapping (not conductors) to the nearest switchboard. The strapping shall be fixed to the pipework with brass nuts and bolts and against walls with brass screws at 150-mm centres. In all cases where metal water pipes, down pipes, flues, etc., are positioned within 1,6m of switchboards an earth connection consisting of copper strapping shall be installed between the pipework and the board. In vertical building ducts accommodating both metal water pipes and electrical cables, all the pipes shall be earthed at each distribution board.

### **Roofs, gutters and down pipes**

Where service connections consist of overhead conductors, all metal parts of roofs, gutters and down pipes shall be earthed. One bare 10mm<sup>2</sup> copper conductor shall be installed over the full length of the ceiling void, fixed to the top purlin and connected to the main earth conductor and each switchboard. The roof and gutters shall be connected at 15m intervals to this conductor by means of 12mm X 0,8mm copper strapping (not conductors) and galvanised bolts and nuts. Self-tapping screws are not acceptable. Where service connections consist of underground supplies, the above requirements are not applicable.

### **Sub-distribution boards**

A separate earth connection shall be supplied between the earth busbar in each sub-distribution board and the earth busbar in the Main Switchboard. These connections shall consist of a bare or insulated stranded copper conductors installed along the same routes as the supply cables or in the same conduit as the supply conductors. Alternatively armoured cables with earth continuity conductors included in the armouring may be utilised where specified or approved.

### **Sub-circuits**

The earth conductors of fall sub-circuits shall be connected to the earth busbar in the supply board in accordance with SANS 10142.

### **Ring Mains**

Common earth conductors may be used where various circuits are installed in the same wire way in accordance with SANS 10142. In such instances the sizes of earth conductors shall be equivalent to that of the largest current carrying conductor installed in the wire way, alternatively the size of the conductor shall be as directed by the Engineer. Earth conductors for individual circuits branching from the ring main shall be connected to the common earth conductor with T-ferrules or soldered. The common earth shall not be broken.

### **Non-metallic Conduit**

Where non-metallic conduit is specified or allowed, the installation shall comply with the Department's standard quality specification for "conduit and conduit accessories".

Standard copper earth conductors shall be installed in the conduits and fixed securely to all metal appliances and equipment, including metal switch boxes, socket-outlet boxes, draw-boxes, switchboards,



luminaires, etc. The securing of earth conductors by means of self-threading screws will not be permitted.

### **Flexible Conduit**

An earth conductor shall be installed in all non-metal flexible conduit. This earth conductor shall not be installed externally to the flexible conduit but within the conduit with the other conductors. The earth conductor shall be connected to the earth terminals at both ends of the circuit.

### **Connection**

Under no circumstances shall any connection points, bolts, screws, etc., used for earthing be utilised for any other purpose. It will be the responsibility of the Contractor to supply and fit earth terminals or clamps on equipment and materials that must be earthed where these are not provided.

Unless earth conductors are connected to proper terminals, the end shall be tinned and lugged.

## **19 MOUNTING AND POSITIONING OF LUMINAIRES**

The Contractor is to note that in the case of board and acoustic tile ceilings, i.e. as opposed to concrete slabs, close co-operation with the building contractor is necessary to ensure that as far as possible the luminaires are symmetrically positioned with regard to the ceiling pattern.

The layout of the luminaires as indicated on the drawings must be adhered to as far as possible and must be confirmed with the Department's representative.

Fluorescent luminaires installed against concrete ceilings shall be screwed to the outlet boxes and in addition 2 x 6mm expansion or other approved type fixing bolts are to be provided. The bolts are to be  $\frac{3}{4}$  of the length of the luminaires apart.

Fluorescent luminaires to be mounted on board ceilings shall be secured by means of two 40mm x No. 10 round head screws and washers. The luminaires shall also be bonded to the circuit conduit by means of locknuts and brass bushes. The fixing screws are to be placed  $\frac{3}{4}$  of the length of the fitting apart.

Earth conductors must be drawn in with the circuit wiring and connected to the earthing terminal of all fluorescent luminaires as well as other luminaires exposed to the weather in accordance with the "Wiring Code".

Incandescent luminaires are to be screwed directly to outlet boxes in concrete slabs. Against board ceilings the luminaires shall be secured to the bracing or joists by means of two 40mm x No. 8 round head screws.

## PART 2: INSTALLATION DETAILS

**[Omit which is not applicable. Clauses 1 to 10 of Part 2 are standard clauses (which should not be altered) and must be inserted in the document in the order as set out.]**

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## **PART 2: INSTALLATION DETAILS**

### **1 CABLE SLEEVE PIPES**

Where cables cross under roadways, other services and where cables enter buildings, the cables shall be installed in earthenware or high-density polyethylene pipes.

The ends of all sleeves shall be sealed with a non-hardening watertight compound after the installation of cables. All sleeves intended for future use shall likewise be sealed.

### **2 NOTICES**

The Contractor shall issue all notices and make the necessary arrangements with Supply Authorities, the Postmaster-General, and S.A. Transport Services, Provincial or National Road Authorities and other authorities as may be required with respect to the installation.

### **3 ELECTRICAL EQUIPMENT**

All equipment and fittings supplied must be in accordance with the attached quality specification (Part 3 of this document), suitable for the relevant supply voltage, and frequency and must be approved by the Employers Electrical Engineer.

### **4 DRAWINGS**

The drawings generally show the scope and extent of the proposed work and shall not be held as showing every minute detail of the work to be executed.

The position of power points, switches and light points that may be influenced by built-in furniture must be established on site, prior to these items being built in.

### **5 BALANCING OF LOAD**

The Contractor is required to balance the load as equally as possible over the multiphase supply.

### **6 SERVICE CONDITIONS**

All plant shall be designed for the climatic conditions appertaining to the service.

### **7 SWITCHES AND SOCKET OUTLETS**

The installation of switches and socket outlets must conform to clause 13 of Part 1 of this specification.

### **8 LIGHT FITTINGS AND LAMPS**

The installation and mounting of luminaires must conform to clause 19 of Part 1 of this specification.

All fittings to be supplied by the Contractor shall have the approval of the Employer.

The light fittings must be of the type specified in the Schedule of Light Fittings.

### **9 EARTHING AND BONDING**

The Contractor will be responsible for all earthing and bonding of the building and installation. The earthing and bonding is to be carried out strictly as described in clause 18 of Part 1 of this specification and to the satisfaction of the Employer/s Electrical Engineer.

## 10 MAINTENANCE OF ELECTRICAL SUPPLY

All interruptions of the electrical supply that may be necessary for the execution of the work, will be subject to prior arrangement between the Contractor and the Client and the Employer's Electrical Engineer.

## 11 EXTENT OF WORK

The work covered by this contract comprises the complete electrical installation, in working order, as shown on the drawings and as per this specification, including the supply and installation of all fittings and also the installation of such equipment supplied by the Employer.

## 12 SUPPLY AND CONNECTION

The supply will be at 400/230 Volt 50Hz.

The Contractor will be responsible for the supply and installation of a new meter box/Kiosk Distribution board for the low tension installations in the facility.

### **Standby Plant**

The 100kVA open type indoor standby generator plant complete with automatic changeover control panel (Distribution Board – X) be supplied, installed and commissioned by others.

The Contractor will only be responsible for the supply and installation of the cable connections between the Main Kiosk and the Charge- over Control Panel (Distribution Board - X). The size and length of the cable is listed in the Schedule of Cables and measured in the Bills of Quantities.

## 13 CONDUIT AND WIRING

**Conduit and conduit accessories shall be black enameled/galvanized screwed conduit or black enameled/galvanized plain end conduit in accordance with SANS 61386.**

All conduits, regardless of the system employed, shall be installed strictly as described in the applicable paragraphs of clauses 4 to 8 of Part 1 of the specification. Wiring of the installation shall be carried out as directed in clause 9 part 1 of this specification.

Where plain end conduit is offered all switches and light fittings must be supplied with a permanent earth terminal for the connection of the earth wire.

Lugs held by switch fixing screws or self-tapping screws will not be acceptable.

### 13.1 Telephone Installation

The Contractor shall allow for the complete installation of all conduits, outlet boxes, the communication service provider Distribution boards, sleeve pipes, etc., required for the telephone system as shown on the drawings.

The sizes of all telephone conduits are indicated on the drawings and must be installed in the floor slab. Galvanized steel draw-wires shall be installed in all conduits.

End boxes must consist of a 50mm x 100 mm x 100mm outlet box fitted with suitable blank cover plates, flush mounted 0,4m above floor level.

The communication service provider Distribution Board must consist of a 150mm x 600mm x 600mm metal box and hinged door with a 20mm thick wooden backboard. The board must be flush mounted, 1,37m above the floor.

### **13.2 Intercom Installation**

The supply and installation of the intercom system is not included in this Contract.

The Contractor shall allow for the complete supply and installation of all conduits and outlet boxes required for the intercom installation as shown on the drawings.

The size of all conduits, boxes and mounting heights of the end boxes are indicated on the drawings. Galvanized steel draw-wires shall be installed in all conduits and the boxes fitted with suitable blank cover plates.

### **13.3 Power Trunking**

The Contractor shall be responsible for the supply and installation of all power trunking complete with corner pieces, end pieces, junction pieces, supply conduits, cover plates and power outlets as specified and indicated on the drawings.

The power trunking must comply with SANS 61084. The Contractor must ensure that the power trunking is installed to satisfaction of the Employer's Electrical Engineer before commencing with the wiring of the power trunking.

## **14 POWER POINTS**

**Allow for the installation of power points and equipment as listed in the schedule and described below:**

### **14.1 ELECTRIC STOVES**

The Contractor must electrically connect all electric stove as specified and listed in the Schedule of Power Points.

NOTE: The electric stove installation must be approved by the Employers Electrical Engineer. Detail with regard to the size and type of electric stove that must be provided must be obtained from the Mechanical Engineer.

### **14.2 OIL JACKETED BOILING POTS**

The Contractor must electrically connect all oil jacketed boiling pots as specified and listed in the Schedule of Power Points.

NOTE: The oil jacketed boiling pot installation must be approved by the Employers Electrical Engineer. Detail with regard to the size and type of oil jacketed boiling pots that must be provided must be obtained from the Mechanical Engineer.

### **14.3 DOUBLE BOWL POT SINK**

The Contractor must electrically connect all double bowl pot sink as specified and listed in the Schedule of Power Points.

NOTE: The double bowl pot sink installation must be approved by the Employers Electrical Engineer. Detail with regard to the size and type of double bowl pot sink that must be provided must be obtained from the Mechanical Engineer.

## 15 CABLES

The Contractor shall supply and completely install all distribution cables as indicated on the drawings, and listed in the Schedule of Cables.

The storage, transportation, handling and laying of the cables shall be according to first class practice, and the contractor shall have adequate and suitable equipment and labour to ensure that no damage is done to cables during such operations.

The cable-trenches shall be excavated to a depth of 0,9m deep below ground level and shall be 450mm wide for one to three cables, and the width shall be increased where more than three cables are laid together so that the cables may be placed at least two cable diameters apart throughout the run. The bottom of the trench shall be level and clean and the bottom and sites free from rocks or stones liable to cause damage to the cable.

The Contractor must take all necessary precautions to prevent the trenching work being in any way a hazard to the personnel and public and to safeguard all structures, roads, sewage works or other property on the site from any risk of subsidence and damage.

In the trenches the cables shall be laid on a 75mm thick bed of earth and be covered with a 150-mm layer of earth before the trench is filled in.

All joints in underground cables and terminations shall be made either by means of compound filled boxes according to the best established practice by competent cable jointers using first class materials or by means of approved epoxy-resin pressure type jointing kits. Epoxy-resin joints must be made entirely in accordance with the manufacturer's instructions and with materials stipulated in such instructions. Low tension PVCA cables are to be made off with sealing glands and materials designed for this purpose which must be of an approved make. Where cables are cut and not immediately made off, the ends are to be sealed without delay.

The laying of cables shall not be commenced until the trenches have been inspected and approved. The cable shall be removed from the drum in such a way that no twisting, tension or mechanical damage is caused and must be adequately supported at intervals during the whole operation. Particular care must be exercised where it is necessary to draw cables through pipes and ducts to avoid abrasion, elongation or distortion of any kind. The ends of such pipes and ducts shall be sealed to approval after drawing in of the cables.

Backfilling (after bedding) of the trenches is to be carried out with a proper grading of the material to ensure settling without voids, and the material is to be tamped down after the addition of every 150mm. The surface is to be made good as required.

On each completed section of the laid and jointed cable, the insulation resistance shall be tested to approval with an approved "Megger" type instrument of not less than 500 V for low tension cables.

Earth continuity conductors are to be run with all underground cables constituting part of a low tension distribution system. Such continuity conductors are to be stranded bare copper of a cross-sectional area equal to at least half that of one live conductor of the cable, but shall not be less than 4mm<sup>2</sup> or more than 70mm<sup>2</sup>. A single earth wire may be used as earth continuity conductor for two or more cables run together, branch earth wires being brazed on where required.

### 15.1 LAYING, JOINTING AND MAKING OFF OF ELECTRICAL CABLES

**[The requirements specified hereafter, are aimed essentially at high tension cable but are also valid for low tension cable, where applicable.]**

1. The use of the term "Inspector", includes the engineer or inspector of the Department or an empowered person of the concerned supervising consulting engineer's firm.
2. No cable is to be laid before the cable trench is approved and the soil qualification of the excavation is agreed upon by the Contractor and inspector.

3. After the cable has been laid and before the cable trench is back-filled the inspector must ensure that the cable is properly bedded and that there is no undesirable material included in the bedding layer.
4. All cable jointing and the making off of the cables must only be carried out by qualified experienced cable jointers. Helpers of the jointers may not saw, strip, cut, solder, etc. The cable and other work undertaken by them must be carried out under the strict and constant supervision of the jointer.
5. Before the Contractor allows the jointer to commence with the jointing work or making off of the cable (making off is recognized as half a joint) he must take care and ensure:
  - 5.1 That he has adequate and suitable material available to complete the joint properly and efficiently. Special attention must be given to ensure the cable ferrules and cable lugs are of tinned copper and of sufficient size. The length of the jointing lugs must be at least six times the diameter of the conductor,
  - 5.2 That the joint pit is dry and that all loose stones and material are removed,
  - 5.3 That the walls and banks of the joint pit are reasonable firm and free from loose material which can fall into the pit,
  - 5.4 That the necessary coffer-dams or retaining walls are made to stop the flow of water into the joint pit,
  - 5.5 That the joint pit is provided with suitable groundsheets so that the jointing work is carried out in clean conditions,
  - 5.6 That the necessary tents or sails are installed over the joint pit to effectively avert unexpected rainfall and that sufficient light or lighting is provided,
  - 5.7 That the necessary means are available to efficiently seal the jointing or cable end when an unexpected storm or cloudburst occurs, regardless of how far the work has progressed,
  - 5.8 That the cables and other materials are dry, undamaged and in all respects are suitable for the joint work or making off,
  - 5.9 That the heating of cable oil, cable compound, plumbers metal and solder is arranged that they are at the correct temperature when required so that the cable is not unnecessarily exposed to the atmosphere and consequently the ingress of moisture (care must be taken of overheating)
 

Flow temperatures of cable oil and compound must be determined with suitable thermometers. Cable oil and compound must not be heated to exceed the temperatures given on the containers and precaution must be taken to ensure that the tin is not overheated in one position. The whole mass must be evenly and proportionally heated.

(Temperatures of solder and plumbers metal may be tested with brown paper (testing time: 3 seconds). The paper must colour slightly - not black or burnt).
6. Before the paper-insulated cables are joined, they must be tested for the presence of moisture by the cable jointers test. This consists of the insertion of a piece of unhandled insulated impregnated paper tape in warm cable oil heated to a temperature of  $130 \pm 5^{\circ}\text{C}$ .
 

Froth on the surface of the oil is an indication that moisture is present in the impregnated insulation and the amount of the froth gives an indication of the moisture present.
7. If the cable contains moisture or is found to be otherwise unsuitable for jointing or making of the inspector is to be notified immediately and he will issue the necessary instruction to cope with the situation.
8. The joint or making off of paper insulated cables must not be commenced during rainy weather.

9. Once a joint is in progress the jointer must proceed with the joint until it is complete and before he leaves the site.
10. The jointer must ensure that the material and his tools are dry at all times, reasonably clean and absolutely free from soil.
11. Relating to the jointing of the cable the following requirements apply:
  - 11.1 All jointing must be carried out in accordance with recognized and tried techniques and comply strictly with the instructions given by the supplier of the jointing kit.
  - 11.2 The cables must be twisted by hand so that the cores can be joined according to the core numbers. If necessary the cable is to be exposed for a short distance to accomplish this. Under no circumstances may the cores in a joint be crossed so as to enable cores to be joined according to the core numbers. If it is not possible to twist the cables so that the preceding requirements can be met, then cores are to be joined in the normal way without any consideration of the core numbers.
  - 11.3 Normally the cables will have profile conductors. The conductors shall be pinched with gas pliers to form a circular section, bound with binding wire so that they do not spread, and then tinned before jointing.
  - 11.4 Jointing ferrules, the length of which are at least 6 times the diameter of the conductors, must be slid over the conductor ends to be joined and pinched tightly. Then they are soldered by means of the ladle process whilst being pinched further closed.

Use resin only as a flux. The slot opening in the ferrule must be completely filled, including all depressions.

Remove all superfluous metal with a cloth dipped in tallow. Work during the soldering process must be from top to bottom. Rub the ferrule smooth and clean with aluminium oxide tape after it has cooled down to ensure that there are not any sharp points or edges.

**NB:** The spaces between the conductor strands must be completely filled by soldering process and must be carried out quick enough to prevent the paper insulation from burning or drying out unnecessarily.
  - 11.5 After the ferrules have been rubbed smooth and clean, they and the exposed cores must be treated with hot cable oil (110°C) to remove all dust and moisture. These parts are to be thoroughly basted with the oil.
  - 11.6 The jointer must take care that his hands are dry and clean before the joint is insulated. Also the insulating tape which is to be used must first be immersed in warm cable oil (110°C) for a sufficient period to ensure that no moisture is present.
  - 11.7 After the individual cores have been installed they must be well basted with hot cable oil and again after the applicable separator and/or belt insulation tape is applied before the lead joint sleeve is placed in position.
  - 11.8 The lead joint sleeve must be thoroughly cleaned and prepared before it is placed on the cable and must be kept clean during the whole jointing process. Seal the filling apertures of the sleeve with tape until the sleeve is ready for compound filling.
  - 11.9 The plumbing joints employed to solder the joint sleeve to the cable sheath, must be cooled off with tallow and the joint sleeve is to be filled with compound while it is still warm. Top up continuously until the joint is completely filled to compensate for the compound shrinkage.
  - 11.10 The outer joint box must be clean and free from corrosion. After it has been placed in position it must be slightly heated before being filled with compound. Top up until completely full.



12. As far as cable end boxes are concerned the requirements as set out above are valid where applicable.

## 16. DISTRIBUTION BOARDS

In addition to clause 14 and clause 15 of Part 1 of this specification the following shall also be applicable to switchboards required for this service.

The Contractor shall supply and install the distribution boards as indicated on the drawings and listed in the distribution Board Schedule. All distribution boards shall comply with the quality specification in Part 3 of this specification, and be approved by the Employer's Electrical Engineer.

The following types of distribution boards are required for the service/replacement:

| DISTRIBUTION BOARD<br>NAME | POSITION & TYPE                   | WORK REQUIRED  |
|----------------------------|-----------------------------------|--|
| DB-KIOSK                   | Outside, Floor standing           | Refurbishment and rewiring   |
| DB-MAIN (Newly Installed)  | Passage, Wall mounted             | Refurbishment and rewiring   |
| DB-B                       | HR Office, Wall recessed          | Replacement of circuit breakers, cover plate, rewiring, legend card and labelling etc. |
| DB-C                       | CMC Office, Wall Recessed         | Replacement of circuit breakers, cover plate, rewiring, legend card and labelling etc. |
| DB-D                       | Wall Recessed                     | Remove   |
| DB-E                       | Kitchen, Wall Mounted             | Refurbishment and rewiring   |
| DB-F                       | Control gate office, Wall Mounted | Refurbishment and rewiring   |
| PUMP CONTROL PANEL         | Outside, Free standing            | Replace  |
| DB-Kitchen (Old)           | Kitchen, wall mounted             | Remove   |

## 17. OUTDOOR LIGHTING

The Contractor shall allow for the supply and installation of the light fittings, conduit and outlets for the general external lighting. The external lighting shall be controlled via a photocell / contactor arrangement with a by-pass switch at the position agreed on with the Client's Representative.

## 18. PHOTO-ELECTRICAL CELL

The Contractor shall allow for the supply and installation of a photo-electric cell with a 10A contact. The photocell shall operate a 15A AC3 Duty triple pole contactor with a by-pass switch.

## 19. SCHEDULE OF POWER POINTS

| BOARD | POWER POINT | TYPE   | SIZE OF CABLES, CONDUIT AND WIRING   | LOAD WATTS |
|-------|-------------|--|--|------------|
| DB-E  | PP1         | 150 liter Steam Jacketed Boiling Pot (phutu pot) | 25mm dia. conduit with 2 x 6mm <sup>2</sup> conductors and 4mm <sup>2</sup> earth wire     | 18 000     |
| DB-E  | PP2         | 135 liter Steam Jacketed Boiling Pot (phutu pot) | 25mm dia. conduit with 2 x 4mm <sup>2</sup> conductors and 2,5mm <sup>2</sup> earth wire   | 9 000      |
| DB-E  | PP3         | 3 Plate Solid Top Stove without Oven             | 25 mm dia. conduit with 2 x 10mm <sup>2</sup> conductors and 6mm <sup>2</sup> earth wire   | 9000       |
| DB-E  | PP4         | Potato Peeler 15kg with stand                    | 20mm dia. conduit with 2 x 2,5mm <sup>2</sup> conductors and 2,5mm <sup>2</sup> earth wire | 750        |
| DB-E  | PP5         | Extraction Canopy                                | 25mm dia. conduit with 2 x 4mm <sup>2</sup> conductors and 2,5mm <sup>2</sup> earth wire   | 1 000      |
| DB-E  | PP6         | Conventional Oven                                | 25mm dia. conduit with 2 x 6mm <sup>2</sup> conductors and 4mm <sup>2</sup> earth wire     | 19 500     |
| DB-C  | PP1         | Water pump                                       | 4mm <sup>2</sup> 2-core PVCA cable with 4mm <sup>2</sup> earth wire                        | 1000       |

## 20. SCHEDULE OF CABLES, CONDUIT AND WIRING

Supply, install and connect the following cable, conduit and wiring:

| FROM                           | TO                             | SIZE AND TYPE  | CABLE LENGTH (m) |
|--------------------------------|--------------------------------|--|------------------|
| Kiosk                          | Switchboard (Changeover Panel) | 95mm <sup>2</sup> 4-core PVCA cable and 50mm <sup>2</sup> earth wire                   |                  |
| Switchboard (Changeover Panel) | DB-MAIN                        | 95mm <sup>2</sup> 4-core PVCA cable and 16mm <sup>2</sup> earth wire                   |                  |
| DB-MAIN                        | DB-B                           | 16mm <sup>2</sup> 4-core PVCA cable and 10mm <sup>2</sup> earth wire                   |                  |
| DB-MAIN                        | DB-C                           | 25mm dia. conduit with 4 x 6mm <sup>2</sup> conductors and 4mm <sup>2</sup> earth wire |                  |
| DB-MAIN                        | DB-D                           | 25mm dia. conduit with 4 x 6mm <sup>2</sup> conductors and 4mm <sup>2</sup> earth wire |                  |
| DB-MAIN                        | DB-E                           | 4mm <sup>2</sup> 4-core PVCA cable and 4mm <sup>2</sup> earth wire                     |                  |
| DB-MAIN                        | DB-F                           | 4mm <sup>2</sup> 4-core PVCA cable and 4mm <sup>2</sup> earth wire                     |                  |
| DB-MAIN                        | DB-PUMP                        |  |                  |

## 21. SCHEDULE OF DISTRIBUTION BOARDS

The front panels of normal supply, standby power and no-break supply sections shall be painted in distinctive colours as follows:

Normal supply : Light Orange, colour B26 of SANS 1091.  
 Standby power : Signal Red, colour A11 of SANS 1091.  
 No-break supply: Dark Violet, colour F06 or Olive Green, Colour H05 of SANS 1091.

Indicated is the probable fault level rating (kA) of the busbars. Refer to the Summary of Switchgear and Circuits for the minimum fault level rating of specified equipment.

| <b>BOARD</b>                      | <b>TYPE</b>                  | <b>PANEL</b>           | <b>FAULT LEVEL<br/>(kA)</b> |
|-----------------------------------|------------------------------|------------------------|-----------------------------|
| Kiosk                             | Floor Mounted, with doors    | Normal Power           | 25                          |
| Switchboard<br>(Changeover Panel) | Floor standing, without door | Normal & Standby Power | 25                          |
| DB-MAIN                           | Surface, with door           | Normal & Standby power | 25                          |
| DB-A                              | Surface, with door           | Normal & Standby power | 6                           |
| DB-B                              | Flush, without Door          | Normal & Standby power | 6                           |
| DB-C                              | Surface, with door           | Normal & Standby power | 6                           |
| DB-D                              | Surface, with door           | Normal & Standby power | 6                           |
| DB-E                              | Surface, with door           | Normal & Standby power | 6                           |
| DB-F                              | Surface, with door           | Normal & Standby power | 6                           |
| DB-PUMP                           | Surface, with door           | Normal & Standby power | 6                           |

**PART 3: QUALITY SPECIFICATION FOR MATERIALS AND EQUIPMENT OF ELECTRICAL INSTALLATIONS**

***“Section C: Quality specification for materials and equipment for electrical installation” manual of the Department of Public Works is applicable for this Contract and the manual can be obtained from the Department of Public Works website, under consultants guidelines.***

***[ONLY ITEMS OF MATERIAL applicable to the Contract must be included in Part 3]***

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## ADDITIONAL REQUIREMENTS OR SPECIFICATIONS NOT COVERED IN QUALITY SPECIFICATIONS ABOVE

### LED LIGHTS

All Light fittings installed for this project is to be of the LED type, unless otherwise stated.

The following international standard specifications and South-African Bureau of Standards shall apply to the LED luminaire specification:

|                    |  |
|--------------------|--|
| SANS 475           | Luminaires for interior lighting, street lighting and floodlighting – Performance and requirements   |
| SANS 10114-1       | Interior lighting part 1: Artificial lighting of interiors   |
| SANS 10114-2       | Interior lighting part 2: Emergency lighting   |
| SANS 60598-1       | Luminaires part 1: General requirements and tests  |
| SANS 60598-2.1     | Luminaires part 2: Particular requirements section 1 – Fixed general purpose luminaires.   |
| SANS 60598-2.2     | Luminaires part 2: Particular requirements section 2 – Recessed luminaires.  |
| SANS 60598-2.3     | Luminaires part 2: Particular requirements section 3 – Luminaires for road and street lighting.  |
| SANS 60598-2.5     | Luminaires part 2: Particular requirements section 5 – Flood lighting.   |
| SANS 61347-1 to 13 | Lamp control gear  |
| SANS 62031         | LED modules for general lighting – Safety specifications   |
| SANS 62384         | DC or AC supplied electronic control gear for LED modules – Performance requirements.  |
| SANS 62560         | Self-ballasted LED lamps for general lighting services with supply voltages > 50V – Safety specification.  |
| SANS 62612         | Self-ballasted LED lamps for general lighting services with supply voltages > 50V – Performance requirements                                       |
| EN 55015           | Limits and methods of measurement of radio disturbance of electrical lighting or equipment.  |
| EN 61000-3.2       | Electromagnetic compatibility (EMC) limits for harmonic current emissions.   |
| EN 61000-3.3       | Electromagnetic compatibility (EMC) limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems. |
| EN 61547           | Equipment for general lighting purposes: EMC immunity requirements.  |
| IEC-EN 62471       | Photo biological safety of lamps and lamp systems for LEDs   |
| IES LM-79-08       | Approved method: Electrical and photometric measurement of solid-state lighting products.  |
| IES LM-80          | Approved method: Measuring lumen maintenance of LED light sources.   |

#### General requirements:

The luminaire shall be suitable for operation with mid-power LEDs. **Note that no LED tubes are allowed to be used.**

The luminaire shall be suitable for operation on a 230V single phase 50Hz mains supply.

Power factor capacitors shall be supplied to correct the power factor to at least 0.95 or higher.

The luminaire shall be marked with identification labels stating the brand name and model and shall bear the SANS approval mark.

The driver shall comply with IEC 61347-1 and IEC 61347-2B as applicable and shall be suitable for operation on 230V  $\pm$ 10%, 50Hz single phase system and it must be insured that harmonics filter is provided as per SANS 61000-3-2. The drivers and LED circuitry shall be protected against lighting and power surges. Suitable surge arrestors with a 10kA rating shall be provided for indoor installations and 20kA for outdoor installations.

Colour rendering (Ra) shall be not less than 80 and lumen depreciation of not more than 30% L70 at 50 000 hours @ Tq 25°C. Colour temperature of the LED lamp shall be 4000K, unless otherwise stated.

Thermal requirements:

The luminaire must be able to withstand an ambient temperature of 35°C. Storage temperature of this luminaire should be able to handle  $-40^{\circ}\text{C} < T < 60^{\circ}\text{C}$ .

To this end internal electrical and mechanical components shall not be allowed to exceed their maximum temperature ratings of 75°C. Test reports from an independent authorised testing facility proving this requirement shall be made available on request.

Noise requirements:

The noise level emitted from the luminaire shall be kept as low as possible. Drivers/electronic components shall therefore fully comply with the latest edition of SANS 55015.

**= END OF SPECIFICATION =**

#### **PART 4: BILLS OF QUANTITIES**

**Electrical, mechanical and/or any other engineering work must be measured by the quantity surveyor and must be prepared in accordance with the latest edition of the Standard System of Measuring Building Work.**

**No additional provision for Preliminaries may be included in the engineering sections of the bills of quantities.**

**Bills of Quantities are included in part C2.2 of the tender document.**

**PART 5: ELECTRICAL WORK MATERIAL SCHEDULE**

The Contractor shall complete the following schedules and submit them to the Electrical Engineer within 21 days of the date of the acceptance of the tender.

The schedules will be scrutinised by the Electrical Engineer and should any material offered not comply with the requirements contained in the specification, the Contractor will be required to supply material in accordance with the contract at no additional cost.

**NB: Only one manufacturer's name to be inserted for each item.**

| Item | Material                         | Make or trade name | Country of origin |
|------|----------------------------------|--------------------|-------------------|
| 1.   | Distribution boards              |                    |                   |
| 2.   | Circuit breakers 1P, 2P, 3P      |                    |                   |
| 3.   | On load isolators without trips  |                    |                   |
| 4.   | Contactors 1P, 2P, 3P            |                    |                   |
| 5.   | Earth leakage relays 1 & 3 phase |                    |                   |
| 6.   | H.R.C. fuse switches             |                    |                   |
| 7.   | Kilowatt hour meter              |                    |                   |
| 8.   | Voltmeter                        |                    |                   |
| 9.   | Maximum demand ammeter           |                    |                   |
| 10.  | Daylight sensitive switch        |                    |                   |
| 11.  | Time switch                      |                    |                   |
| 12.  | Conduit                          |                    |                   |
| 13.  | Conduit boxes                    |                    |                   |
| 14.  | Power skirting                   |                    |                   |
| 15.  | Surface switches                 |                    |                   |
| 16.  | Watertight switches              |                    |                   |
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|      | Etc.                             |                    |                   |
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## **PARTICULARS OF ELECTRICAL CONTRACTOR**

Please ensure that DPW -22(EC) Particulars of electrical contractor is inserted in main tender document.

(c:/my doc/qs/elect.doc/sample spec(pw346)-03-2018)



public works  
& infrastructure

Department:  
Public Works and Infrastructure  
REPUBLIC OF SOUTH AFRICA

# NATIONAL DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

## ELECTRICAL ENGINEERING SERVICES

### SPECIFICATION FOR THE SUPPLY, INSTALLATION AND COMMISSIONING OF AN INDOOR EMERGENCY GENERATOR SET

**Date: August 2022**

**Engineering Services Chief Directorate**  
Electrical Engineering Directorate  
Electrical Engineering Standards & Specifications Committee  
256 Madiba Street  
Pretoria  
0001

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## **1. SECTION 1 – GENERAL**

### **1.1. Intent of Specification**

The specification is intended to cover the complete installation and commissioning of the generator plant. The minimum equipment requirements are outlined, but do not cover all the details of design and construction. Such details are recognised as being the exclusive responsibility of the contractor.

For the purposes of this document the following applies:

- Generator Contractor shall be referred to as the Generator Contractor or simply Contractor;
- The masculine includes the feminine;
- The singular includes the plural.

### **1.2. Standards and Codes**

All standards referenced shall be the latest editions.

|                            |  |
|----------------------------|--|
| SANS 10142-1               | the wiring of premises: Low Voltage Installations                                    |
| SANS 8528                  | Reciprocating internal combustion engine driven alternating current generating sets. |
| SANS 60034                 | Rotating electrical Machines   |
| SANS IEC 60947             | Low Voltage Switchgear   |
| OHSACT                     | Occupational Health and Safety Act.  |
| Department of Public Works | Quality Specification Parts A, B and C.  |
| Local municipality         | by-laws for generator installations. (To be obtained from local municipality)        |

### **1.3. Compliance with Regulations**

The installation shall be erected and tested in accordance with the following Acts and regulations:

- a) The Occupational Health and Safety Act, 1993 (Act 85 of 1993) as amended,
- b) The Local Government Ordinance 1939 (Ordinance 17 of 1939) as amended and the municipal by-laws and any special requirements of the local supply authority,
- c) The Fire Brigade services Act 1987 (Act 99 of 1987) as amended,
- d) The National Building Regulations and Building Standards Act 1977 (Act 103 of 1977) as amended,
- e) The Electricity Act 1984 (Act 41 of 1984) as amended.
- f) The environmental Act and regulations

### **1.4. Scope of Work**

Included in this indoor Generator Specification

Supply, delivery, installation and commissioning of the complete indoor emergency generator set specified in this document.

The plant room will be provided by other trades and the contractor shall ensure that the space allowed is sufficient for the installation of the generator set and that the ventilation of the plant room is adequate. If any changes to the design have to be made the contractor must inform the consulting engineer in writing.

### **1.5. Co-ordinating**

The Contractor shall familiarise himself with the requirements of the other professional disciplines and shall examine the plans and specifications covering each of these sections.

The generator space, noise and vibration requirements shall be carefully checked with other professional disciplines to ensure that the equipment can be installed in the proper sequence in the space allotted.

## **1.6. Tests Certificates and Inspections**

The following tests are to be carried out:

- a) At the supplier's premises, before the generating set will be delivered to site Representatives of the Department must be present during the test to satisfy themselves that the generating set complies with the specification and delivers the specified output. The test must be carried out in accordance with SANS 8528. The Representative/Agent must be timeously advised of the date for the test.
- b) After completion of the works and before practical completion is taken, a full test will be carried out on the installation for a period of sufficient duration to determine the satisfactory working thereof. During this period the installation will be inspected and the contractor shall make good, to the satisfaction of the Representative/Agent, any defects which may arise.
- c) The Contractor shall provide all instruments and equipment required for testing and any water, power and fuel required for the commissioning and testing of the installation at completion.
- d) Test reports of both tests as specified under (a) and (b) are to be submitted to the Representative/Agent.

The total costs for these test shall be included in the tendered amount.

In the event of the plant, equipment or installation not passing the test, the Representative/Agent shall be at liberty to deduct from the Contract amount all reasonable expenses incurred by the Employer and/or the Representative/Agent attending the test.

## **1.7. Operating and Maintenance Manuals**

The Contractor shall be responsible for the compilation of a complete set of Operating and Maintenance manuals.

This shall be done in accordance with Section 4 – Operating and Maintenance manuals.

All information shall be recorded and reproduced in electronic format as well as supplying the Representative/Agent with three sets of hard copies.

Approval of the final Operating and Maintenance Manuals shall be a prerequisite for issuing of a Certificate of Practical Completion of the installation.

## **1.8. Guarantee**

After works completion of the installation have been achieved, there will follow a 12-month free maintenance period.

During this period the generator contractor shall maintain the generator installation as per the requirements of the Occupational Health and Safety Act. This maintenance shall include systematic examinations, adjustments and lubrication of all generator equipment. Electrical and mechanical parts shall be repaired or replaced whenever it is required to maintain optimum performance without additional cost to the Department, unless the condition was caused by misuse or vandalism of the generator equipment or natural hazards/force majeure.

The work under this section shall be performed by competent, qualified accredited personnel under the supervision and in the direct employment of the Generator Contractor and shall not be transferred to any non-affiliated agent. Contract maintenance and repair work shall be done during normal working

hours and shall further provide emergency call-back service twenty-four (24) hours a day, seven (7) days a week.

During the guarantee/maintenance period the Department will invite tenders for the comprehensive maintenance of the generator, which will commence after the final completion has taken place, i.e. after the twelfth month guarantee period is over and all defects are corrected.

### **1.9. Materials and Workmanship**

- a) The work throughout shall be executed to the highest standards and to the entire satisfaction of the Representative/Agent who shall interpret the meaning of the Contract Document and shall have the authority to reject any work and materials, which, in his judgement, are not in full accordance therewith. All condemned material and workmanship shall be replaced or rectified as directed and approved by the Representative/Agent.
- b) All work shall be executed in a first-class manner by qualified accredited tradesman.
- c) The Contractor shall be fully responsible for his work and shall replace any of the work which may be damaged, lost or stolen. The Contractor shall protect the building and its contents against damage by him, his employees or sub-contractors and shall make good any damage thereto.
- d) The Contractor shall indemnify the Employer of all liability for damages arising from injuries or disabilities to persons or damage to property occasioned by any act or omission of the Contractor or any of his sub-contractors, including any and all expenses, legal or otherwise, which may be incurred by the Employer or Representative/Agent in the defence of any claim, action or suit.
- e) The Contractor shall warrant that the materials and workmanship shall be of the highest grade, that the equipment shall be installed in a practical and first-class manner in accordance with the best practices and ready and complete for full operation. It is specifically intended that all material or labour which is usually provided as part of such equipment as is called for and which is necessary for its proper completion and operation shall be provided without additional cost whether or not shown or described in the Contract Document.
- f) The Contractor shall thoroughly acquaint himself with the work involved and shall verify on site all measurements necessary for proper installation and commissioning work. The Contractor shall also be prepared to promptly furnish any information relating to his own work as may be necessary for the proper installation work and shall co-operate with and co-ordinate the work of others as may be applicable.
- g) The Contractor shall inspect and verify that the existing power feeder system is compatible with the equipment offered and any changes or upgrading of the electrical supply shall be brought to the attention of the Representative/Agent.
- h) Material and equipment damaged in transit shall be replaced with undamaged material without additional cost to the Department.
- i) All components and their respective adjustment, which do not form part of the equipment installation work, but influence the optimum and safe operation of the equipment shall be considered to form part of, and shall be included in the Contractor's scope of works.
- j) All control equipment and serviceable items shall be installed and positioned such that they will be accessible and maintainable.
- k) The Contractor shall make sure that all safety regulations and measures and environmental regulations are applied and enforced during the installation and guarantee period to ensure the safety of the public and the User Client.

### **1.10. Brochures**

Detailed brochures of all equipment offered shall be presented together with the tender documents.



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## **2. SECTION 2 – EQUIPMENT REQUIREMENTS**

### **2.1. Engine**

#### **2.1.1. General**

The engine must comply with the requirements laid down in SANS 8528 and must be of the atomized injection, compression ignition type, running at a speed not exceeding 1500 r.p.m. The engine must be amply rated for the required electrical output of the set, when running under the site conditions. The starting period for either manual or automatic switching-on until the taking over by the generating set, in one step, of a load equal to the specified site electrical output, shall not exceed 15 seconds. This must be guaranteed by the Tenderer.

Turbo-charged engines will only be accepted if the Tenderer submits a written guarantee that the engine can deliver full load within the specified starting period.

Curves furnished by the engine makers, showing the output of the engine offered against the speed, for both intermittent and continuous operation as well as fuel consumption curves when the engine is used for electric generation, must be submitted with the Tender.

#### **2.1.2. Rating**

The set shall be capable of delivering the specified output continuously under the site Conditions, without overheating. The engine shall be capable of delivering an output of 110% of the specified output for one hour in any period of 12 hours consecutive running in accordance with SANS 8528.

#### **2.1.3. De-Rating**

The engine must be de-rated for the site conditions as set out in the Technical Specification, Section 3 of this document.

The de-rating of the engine for site conditions shall be strictly in accordance with SANS 8528 as amended to date. Any other methods of de-rating must have the approval of the Department and must be motivated in detail. Such de-rating must be guaranteed in writing and proved by the successful Tenderer at the site test.

#### **2.1.4. Starting and Stopping**

The engine shall be fitted with an electric starter motor and be easily started from cold, without the use of any special ignition devices under summer as well as winter conditions.

Tenderers must state what arrangements are provided to ensure easy starting in cold weather. Full details of this equipment must be submitted. In the case of water cooled engines, any electrical heaters shall be thermostatically controlled. The electrical circuit for such heaters shall be taken from the control panel, and must be protected by a suitable circuit breaker.

#### **2.1.5. Starter Battery**

The set must be supplied a fully charged lead-acid type or maintenance free type battery, complete with necessary electrolyte. The battery must have sufficient capacity to provide the starting torque stipulated by the engine manufacturer. The battery capacity shall not be less than 120 Ah and shall be capable of providing three consecutive start attempts from cold and thereafter a fourth attempt under manual control of not less than 20 seconds duration each. The battery must be of the heavy duty "low maintenance" type, housed in a suitable battery box.

### **2.1.6. Cooling**

The engine may be either of the air or water cooled type. In the case of water-cooling, a built-on heavy duty, tropical type pressurised radiator must be fitted. Only stand-by sets that are water cooled shall have electric heaters.

For either method of cooling, protection must be provided against running at excessive temperatures. The operation of this protective device must give a visual and audible indication on the switchboard. Water-cooled engines shall in addition be fitted with a low water cut-out switch, installed in the radiator, to switch the set off in the event of a loss of coolant. The protection shall operate in the same way as the other cut-outs (e.g. low oil pressure). All air ducts for the cooling of the engine are to be allowed for. The air shall be supplied from the cooling fan cowling/radiator face to air outlet louvers in the plant room wall.

### **2.1.7. Lubrication**

Lubrication of the main bearings and other important moving parts shall be by forced feed system. An automatic low oil pressure cut-out must be fitted, operating the stop solenoid on the engine and giving a visible and audible indication on the switchboard.

### **2.1.8. Fuel Pump**

The fuel injection equipment is suitable for operation with the commercial brands of diesel fuel normally available in South Africa.

### **2.1.9. Fuel Tank**

A fuel tank shall be installed in the plant room. The fuel tank shall be a free standing type or alternatively be an integral part of the base frame of the generator set. The tank shall have sufficient capacity for standby sets to run the engine on full load for a period of 24 hours.

The diesel fuel storage system / tank which will be provided with the standby generator installation must be fitted with a fuel filtration and water separation system (filter & separator) which is entirely separate from the fuel supply line and line filter to the engine. This filtration and water separation system must be dedicated to purifying the content of the storage system / tank by way of the cleaning processes which are applied while circulating the fuel through the filter & separator unit.

The filtration system must be able to handle diesel fuel of "high" and of "low" sulphur content for an indefinite period. The suction line of the system must be connected to the lowest part of the storage system / tank. The return line must be connected in the top section of the storage system / tank in such a position and in such a way that the flow of fuel within the storage system / tank between the fuel return point and the fuel suction point will induce scouring of the bottom of the system / tank to effectively capture sediment and water in the to be filtered fuel.

The filtration unit must filter the diesel fuel, removing suspended particles of effective diameters down to 5 micron. In addition, it must separate all water from the fuel and the fuel storage system and automatically dispose of / dump such water into an open, removable receptacle for disposal at the installation or in a suitable position outside the building. Separation of the fuel and water must be sufficiently effective that the discharged water will meet the standard required for it to be disposed of into a municipal drain and sewer system.

The filter and water separator unit must draw its power from the DC batteries used to power the relevant generator set. The circulating pump shall be provided with a controller programmed to switch the pump through not more than three complete on and off cycles of equal time (i.e. 50% on; 50% off) , per hour, with a deviation of not more than 10 % ±. The pump must be capable of a duty cycle of not less than 60% running time. The flow rate through the circulating pump must be between 1 L/min and 1.25 L/min.

The filter cartridge of the filter and water separator unit must be replaceable, and, in normal operational conditions, not require replacement within periods shorter than three months. The replacement units must be readily available.

The filtration & separator system may be mounted against the wall of the plant room or on the inside of a container, which may house the installation as may be specified elsewhere in this document.

The tank shall be fitted with a suitable filter, a full height gauge glass, "low fuel level" alarm, giving an audible and visible signal on the switchboard as well as a low-low fuel level cut-out.

An electrically operated pump with sufficient length of oil resistant hose to reach 2m beyond the door, shall be supplied, for each set for filling the fuel tank/s from 200 litre drums.

The interconnection fuel piping shall consist of copper tubes and the connection to vibrating components shall be in flexible tubing with armoured covering.

#### **2.1.10. Governor**

The speed of the engine shall be controlled by a governor in accordance with ECM of SANS 8528 if not otherwise specified in the Detailed Specification.

The permanent speed variation between no load and full load shall not exceed 4.5% of the nominal engine speed and the temporary speed variation shall not exceed 10%. External facilities must be provided on the engine, to adjust the nominal speed setting by  $\pm 5\%$  at all loads between zero and rated load.

#### **2.1.11. Flywheel**

A suitable flywheel must be fitted, so that lights fed from the set will be free from any visible flicker.

The cyclic irregularity of the set must be within the limit laid down in SANS 8528.

#### **2.1.12. Exhaust Silencer**

It is essential to keep the noise level as low as possible. An effective exhaust silencing system of the residential type must be provided and shall be capable of providing 20 to 30 decibels of suppression.

The exhaust system shall consist of 3CR12 steel for inland areas (greater than 50km from the coast) or Grade 304 stainless steel in coastal areas.

The exhaust pipe shall be installed in such a way that the expelled exhaust fumes will not cause discomfort to the public. The exhaust pipe must be flexibly connected to the engine to take up vibrations transmitted from the engine, which may cause breakage. The exhaust piping and silencer shall be lagged and then cladded in stainless steel sheet to reduce the heat and noise transmission into the plant room and shall be protected against the ingress of driving rain at 45° to the horizontal. The exhaust pipe must extend 0,5m above the roof gutters or higher to avoid pollution of gas emissions into other buildings/offices. It must be secured by stainless steel flanges both sides of the wall at the point of exit. These flanges must be clamped to the wall with bolts through the wall.

#### **2.1.13. Accessories**

The engine must be supplied complete with all accessories, air and oil filters, 3 instruction manuals, spare parts lists, the first fill of all lubricating oils, fuel, etc.

#### **2.1.14. Exhaust emissions**

The exhaust emissions shall comply with US Tier III/EU stage III standards.

## **2.2. Alternator**

### **2.2.1. General**

The alternator shall be of the self-excited brushless type, with enclosed ventilated drip-proof housing and must be capable of supplying the specified output continuously with a temperature rise not exceeding the limits laid down in SANS 60034-1 for rotor and stator windings.

The alternator shall be capable of delivering an output of 110% of the specified output, for one hour in any period of 12 hours consecutive running.

Both windings must be fully impregnated for tropical climate and must have an oil resisting finishing varnish.

### **2.2.2. Regulation**

The alternator must preferably be self-regulated without the utilisation of solid state elements. The inherent voltage regulation must not exceed plus or minus 5% of the nominal voltage specified, at all loads with the power factor between unity and 0,9 lagging and within the driving speed variations of 4,5% between no-load and full load.

### **2.2.3. Performance**

The excitation system shall be designed to promote rapid voltage recovery following the sudden application of the load. The voltage shall recover to within 5% of the steady state within 300 milliseconds following the application of full load and the transient voltage dip shall not exceed 18%.

### **2.2.4. Coupling**

The engine and alternator must be directly coupled by means of a high quality flexible coupling, ISO 9001:2000 approved and must be designed and manufactured to this quality system.

## **2.3. Switchboard**

### **2.3.1. General**

A switchboard must be supplied and installed to incorporate the equipment for the control and protection of the generating set and battery charging.

The switchboard must conform the specification as set out in the following paragraphs.

### **2.3.2. Construction**

The switchboard shall be a totally enclosed, floor mounted unit, fabricated from steel panels, carried on and-substantial angle iron framework.

The board shall be flush fronted and all equipment to be mounted behind the front plate, on suitable supports.

All equipment, connections and terminals shall be easily accessible from the front. The front panels may be either hinged or removable and fixed with studs and chromium-plated cap nuts. Self-tapping screws shall not be used in the construction of the board.

All pushbuttons, pilot lights, control switches, instrument and control fuses, shall be mounted on hinged panels with the control wires in flexible looms.

The steelwork of the boards must be thoroughly de-rusted, primed with zinc chromate and finished with two coats of signal red quality enamel, or a baked powder epoxy coating.

Suitably rated terminals must be provided for all main circuits and the control and protection circuits. Where cable lugs are used, these shall be crimped onto the cable strands. Screw terminals shall be of the type to prevent spreading of cable strands. All terminals shall be clearly marked.

For the control wiring, each wire shall be fitted with a cable or wire marker of approved type, and numbering of these markers must be shown on the wiring diagram on the switchboard. Control wiring shall be run in PVC trunking. The trunking shall be properly fixed to the switchboard steelwork. Adhesives shall not be acceptable for the fixing of trunking or looms.

The modular generator set controller and protection equipment shall be mounted on a separate easily replaceable panel.

All equipment on the switchboard, such as contactors, isolators, busbars, etc., shall have ample current carrying capacity to handle at least 110% of the alternator full load current.

Access to the cubicle will be such that all components can be conveniently reached for testing and maintenance purposes.

The necessary bushes and a screen over the terminals will be provided where the power feeds enter and leave the cubicle.

The cubicle will be so constructed that the ac and dc components are screened from one another.

### **2.3.3. Protection and Alarm Devices**

All switchboards shall be equipped with protection and alarm devices as described below.

A circuit breaker and an adjustable current limiting protection relay must be installed for protection of the alternator. The protection relay shall be of the type with inverse time characteristics. The relay shall cause contactor to isolate the alternator and stop the engine.

Protection must be provided for overload, high engine temperature, low lubricating oil pressure, over speed, start-failure, and low water level.

Reset push buttons are required on the modular generator set controller and a visible signal are required and the engine must stop when any of the protective devices operate. In the case of manual operation of standby sets, it shall not be possible to restart the engine.

The indication on the modular generator set controller must be in ENGLISH.

"OVERLOAD"  
"TEMPERATURE HIGH"  
"OIL PRESSURE LOW"  
"OVERSPEED"  
"START FAILURE"  
"LOW WATER LEVEL"

In addition an audible and visible flashing signal shall be provided, when:

- a) The fuel level in the service tank is low. The indication on the modular generator set controller shall be "FUEL LOW".
- b) The battery charger failed. The indication on the modular generator set controller shall be "CHARGER FAIL"

A low-low level sensor must be provided. At this level the engine must stop to prevent air entering the fuel system.

This is also applicable to the engine driven generator/alternator.

All alarm conditions must operate an alarm hooter. A pushbutton must be installed in the hooter circuit to stop the audible signal, but the fault indicating light on the control panel must remain lit until the fault has been rectified.

An on/off switch is not acceptable. After the hooter has been stopped, it must be re-set automatically, ready for a further alarm.

The hooter must be of the continuous duty and low consumption type. Both hooter and protection circuits must operate from the battery.

Potential free contacts from the alarm relay must be brought down to terminals for remote indication of alarm conditions.

A test pushbutton must be provided to test all indicators lamps.

#### **2.3.4. Modular Generator Set controller**

The modular generator set controller shall be an electronic unit to match those of the other modular generator set controllers and of a high quality i.e. Levato, Deep Sea Electronics, Circom. It must be provided with IO and communication facilities.

The modular generator set controller will be supplied with all its functions and shall be mounted on a separate easily replaceable panel with plug in termination blocks for easy installation and replacement.

The modular generator set controller interface will be implemented with relays, contactors etc.

The modular generator set controller will have a mimic display of the alternator/mains/ change over contactors configuration with LED's showing the status of the mains, alternator and change over contactors.

Configuration software shall be supplied with the system. The software will be capable of the following:

- Fault management (event log)
- Configuration management (software upgrades and function changes)
- Account management (energy management)
- Performance management (generator set point changes)
- Security management (passwords)

The modular generator set controller will have a standard RS 232/485 or Ethernet interface suitable for TCP I/P transport medium. All communication including configuration management will be done through this port. Equipment connected at each end of the RS 232 or Ethernet cable shall be adequately protected against transient over-voltages, lightning effects (particularly if the set and remote alarms are in separate buildings), switching surges, power system surges or mains and alternator borne noise/interference.

The controller will incorporate the following functions:

- Mains sensing
- Alternator output-voltage sensing
- Alternator over- frequency sensing
- Control of processor unit (self-diagnostics)
- Alarm/ Status indications
- Control selector and operation
- Phase rotation monitor

A 4- position control selector on the controller will be provided to facilitate the following modes of operation:

- OFF: Diesel/ alternator generator set switched off

- MANUAL: Mains bypassed: Diesel/ alternator will not take load
- AUTO: Diesel /alternator takes load on mains failure
- TEST: Diesel /alternator takes load on mains failure
- A standby failure alarm (SF) will be given on the controller and to the output alarms when “Not in Auto” is selected.

The modular generator set controller must monitor the following

When the voltage of the incoming mains varies by more than a pre-program value (default +- 10%) from the normal voltage on any phase, the controller will signal that the incoming mains will be disconnected and the engine-starting sequence initiated.

When the frequency of the incoming mains varies by more than pre- program value (default +-5%) from the normal frequency, the controller will signal that the incoming mains will be disconnected and the engine-starting sequence initiated.

Upon restoration of the incoming mains to the pre-program value (default +-10%) of the normal voltage on all phases, the monitor will signal that the load will be disconnected from the alternator and reconnected to the incoming mains.

If the alternator has been disconnected from the load and the incoming mains within the voltage limits of +- 10% on all phases, the controller will signal that the load will be reconnected to the incoming mains.

Should the incoming mains fail or not in the specified limits while the engine is running under control of the cooling-off timer, the control for the cooling –off timer in the controller will be cancelled and the load connected to the alternator.

When the output voltage of the alternator varies by more than the pre-program value (default value +- 10 %) on ANY phase, the controller will signal that the load will be disconnected from the alternator and the engine stopped.

A software over and under-frequency monitor will be provided in the controller if the frequency exceeds or drop below pre-programmed values. It will meet the requirements of class G2 governing. The monitor will not be influenced by harmonics.

Note: Software monitors will include adjustable overshoot and undershoot timers to be fully compatible with Class G2 governing.

All timers will be implemented in software.

#### Incoming supply failure timer

It is essential that incoming supply failures, occurring at short intervals, do not cause a series of starts and stops.

A timer adjustable from 1 s to 10 s required

The timer default value will be generator set to 3 s

The signal generated by the mains voltage monitor will start the timer. If the duration of the signal is less than the generator setting on the timer, the signal is suppressed so that the switching and starting sequence is initiated. However, if the duration of the signal is more than the generator setting on the timer, the signal will be transmitted to initiate the switching and starting sequence.

#### Incoming supply restoration timer

It is essential that incoming supply failures, occurring at short intervals, do not cause a series of starts and stops.

A timer adjustable from 1 s to 10 s required.

The timer default value will be generator set to 3 s.

The signal generated by the mains voltage monitor will start the timer. If the duration of the signal is less than 150 sec, the signal is suppressed and the timer is regenerated. However, if the duration of the signal is more than 150 sec, the signal will be transmitted to initiate the switching sequence.



#### Alternator supply/ incoming supply change-over timer

It is essential that the supply be disconnected from the load before the incoming supply is reconnected to the load. This will be software generator settable in the controller with a minimum of 5 seconds and maximum of 20 seconds.

On receipt of the switching signal, the alternator supply will be disconnected from the load and timer started. After 5 sec, the incoming supply will be reconnected to the load.

#### Engine cooling-off timer

After the load has been transferred to the incoming supply the engine will run without load for a period to cool off and then stop.

A timer, software adjustable in the controller from 5 to 10 min is required.

#### Repeat- start control

A repeat- start control is required in the controller software adjustable so that in the event of the engine failing to start on the first start attempt, the starter motor will be released and repeat the start attempt.

The repeat-start attempt will be repeated 3 times.

The duration of each start attempt will be 6 sec with a period of 15 sec between successive start attempts.

Should the engine fail to start after the third start attempt, the controller will transmit a signal for alarm purposes.

In addition to the requirement for the switchboard instruments listed elsewhere in this document metering will also form part of the modular generator set controller and must be accessible on the software.

The modular generator set controller shall display the following alarm/status indications:

- High engine temperature.
- Low Oil pressure
- High/low alternator output voltage
- Over and under speed (frequency)
- Low water level
- Emergency stop activated
- Mains fail
- Battery charger fail
- Dummy load in operation (When provided)
- Unit not in Auto
- Engine running
- Low fuel alarm
- Engine start failure

Conditions one to six above will stop the engine.

The Contractor shall provide a remote alarm mimic panel and the associated control wiring for the set. The panel shall be installed in the duty/security room at the entrance to the building approximately 70m from the generator set position.

The mimic panels must fit into furniture and blend with the design. Before manufacture, the Contractor shall submit and obtain the approval, from the Engineer, for the mimic panel.

The remote alarm must have potential free relay contacts which shall indicate the following on each set:

- 1) Mains on/off
- 2) Alternator running
- 3) Common fault alarm
- 4) Buzzer which can only be reset at the generator panel
- 5) Fuel low

The cable between the remote alarms is to be a signal cable with a screen and this option must be able to operate from a 12 / 24 V dc supply so that it can be powered from the generator set batteries.

A facility to originate a fault message should a warning or shutdown fault occur.

A facility to allow the mode of the control system to be changed to any of the four modes to allow the set to be run from a remote location.

A facility to originate a call to the control cellular and to transfer a fault message should a warning or shutdown fault occur. The alarm conditions above from the controller will be extended to four relays with a make and break contact and terminal strip to allow for remote monitoring of the following alarms:

- Mains fail
- Standby run
- Standby fail
- Low Fuel

A remote start facility must be supplied, software controllable in the controller.

All events relating to the status of the generator set shall be logged with date and time in a non-volatile memory (which can retain information for a period of 6 months in the absence of power to the controller) and the user shall be able to contain a hard copy on site.

The modular generator set controller system must be able to operate with a minimum DC supply voltage of 4 volts (without making use of either an internal or an external auxiliary battery) to allow cranking and starting under conditions of low battery capacity. Control cables between the set and the control panel shall be fitted with sockets for ease of undoing in the event the modular generator set controller has to be removed.

### **2.3.5. Manual Starting**

Each switchboard shall be equipped with two pushbuttons marked "START" and "STOP" for manual starting and stopping of the set.

### **2.3.6. Battery Charging Equipment**

Each switchboard shall be equipped with battery charging equipment.

The charger shall operate automatically in accordance with the state of the battery and shall generally consist of an air-cooled transformer, a full wave solid state rectifier, and the necessary automatic control equipment of the constant voltage system.

The charger must be fed from the mains. An engine driven alternator must be provided for charging the battery while the set is operational. Failure of this alternator must also activate the battery charger failure circuit.

The starter battery voltage will be software monitored by the modular generator set controller. The voltage will be digitally displayed.

### **2.3.7. Switchboard Instruments**

Each generating set shall have a switchboard equipped as follows:

- a) One flush square dial voltmeter, reading the alternator voltage, scaled as follows:
  - (i) 0-300V for single phase generators.
  - (ii) 0-500V for three phase generator. In this case a six position and off selector switch must be installed for reading all phase and phase to neutral voltages.
- b) A flush square dial combination maximum demand and instantaneous ampere meter for each phase, with resettable pointer suitably scaled 20% higher than the alternator rating. A red arc stripe above scale markings from 0-20A and a red radial line through the scale at full-load current, shall be provided. This instruments shall be supplied complete with the necessary current transformer.
- c) One flush square dial vibrating type frequency meter, indicating the alternator frequency.
- d) A six digit running hour meter with digital counter, reading the number of hours the plant has been operating. The smallest figure on this meter must read 1/10 hour.
- e) Fuses or m.c.b.'s for the potential voltage circuits of the meters.
- f) One flush square dial ampere meter suitably scaled for the battery charging current.
- g) One flush square dial voltmeter with a spring loaded pushbutton or switch for the battery voltage.

### **2.3.8. Marking**

All labels, markings or instructions on the switchgear shall be in English.

### **2.3.9. Earthing**

An earth bar must be fitted in the switchboard, to which all non-current carrying metal parts shall be bonded.

The neutral point of the alternator must be solidly connected this bar by means of a removable link labelled "EARTH". Suitable terminals must be provided on the earth bar for connection of up to three earth conductors, which will be supplied and installed by others.

### **2.3.10. Operation Selector Switch**

A four position selector switch must be provided on the switchboard marked "AUTO", "MANUAL", "and TEST" and "OFF".

With the selector on "AUTO", the set shall automatically start and stop, according to the mains supply being available or not.

With the selector on "TEST", it shall only be possible to start and stop the set with the pushbuttons, but the running set shall not be switched to the load.

With the selector on "MANUAL", the set must take the load when started with the pushbutton, but it must not be possible to switch the set on to the mains, or the mains onto the running set.

With the selector on "OFF", the set shall be completely disconnected from the automatic controls, for cleaning and maintenance of the engine.

### **2.3.11. Automatic Change-over System**

A fully automatic change-over system must be provided to isolate the mains supply and connect the standby set to the outgoing feeder in case of a mains failure and reverse this procedure on return of the mains.

The contactors for this system must be electrically and mechanically interlocked.

### **2.3.12. By-pass Switch and Main Isolator**

The switchboard shall be equipped with an on-load isolator to isolate the mains and a manually operated on-load 4 pole 4 position by-pass switch, which shall switch the connected loads as follows:

**NORMAL:** will allow for the normal connection i.e. connects the incoming mains to the Automatic control gear or directly to the outgoing feeder.

In the GEN BY-PASS position the switch will disconnect the automatic changeover control gear, and will connect the municipal mains directly the essential supply busbar which will allow for the maintenance of either or both the generator and the automatic changeover equipment.

**MAINS BY-PASS** switching position would allow the generator to be connected directly to the essential supply busbar. This is when there is a problem with the automatic changeover equipment and there is no municipal power available.

The final position is an OFF position which will remove all power downstream of this switch.

It is required that this by-pass switch and mains isolator be mounted away from the automatic control gear, in a separate compartment, either on the side or in the lower portion of the switchboard cubicle, and that the switches are operated from the front of the compartment.

Contractor to note: The by-pass and mains isolator switch shall also break the main neutral.

### **2.3.13. Start Delay**

Starting shall be automatic in event of a mains failure. A 0-15 second adjustable start delay timer shall be provided to prevent start-up on power trips or very short interruptions.

### **2.3.14. Stop Delay**

A stop delay with timer is required for the set, to keep the set on load for an adjustable period of one to sixty seconds after the return of the mains supply, before changing back to the supply. An additional timer shall keep the set running for a further adjustable cooling period of 5 to 10 minutes at no-load before stopping.

## **2.4. Installation**

Except for the supply of the incoming mains cable and outgoing feeder cables, the tenderer must include for the complete installation and wiring of the plant in running order, including the connection of the incoming cable and outgoing feeder cables.

The connecting of the cable and control cabling to the generator and the control terminals in the LV board remains the responsibility of the tenderer.

## **2.5. Warning Notices**

Notices, in English, must be installed at the entrance doors to and in the plant rooms.

The contents of these notices are summarised below.

- a) Unauthorised entry prohibited.
- b) Unauthorised handling of equipment prohibited.
- c) Procedure in case of electric shock.
- d) Procedure in case of fire.

e) Ear Protection required

The successful tenderer must consult the Occupational Health and Safety Act 83 of 1993 and get approval of the wording from the Department's representative, prior to ordering the notices.

Lettering must be black on a yellow background.

Notices (a) must be installed outside next to the entrance of the plant room and (b-d) inside the plant room.

In the plant room, a clearly legible and indelible warning notice must be mounted in a conspicuous position.

The motive shall be made of a non-corrodible and non-deteriorating material, preferable plastic, and must read as follows:

DANGER: This engine will start without notice. Turn selector switch on control board to "OFF" before working on the plant.

An engraved label shall be installed on the generator control panel that indicates the following:

- Base Tank Capacity
- Bulk Tank Capacity (if provided)
- Full load litres per hour consumption

## 2.6. Construction

The engine and alternator of the set shall be built together on a common frame, which must be mounted on a skid base on anti-vibration mountings. The set must be placed direct on the concrete of the generator room. A drip tray must be fitted under the engine. The tray must be large enough to catch a drip from any part of the engine.

The frame must be of the 'DUPLEX' type.

## 2.7. Operation

The set is required to supply the lighting and power requirements in the case of a mains power failure.

The set shall be fully automatic i.e. it shall start when any one phase of the main supply fails or get switched and shall shut down when the normal supply is re-established. In addition it shall be possible to manually start and stop the set by means of pushbuttons on the switchboard.

The automatic control shall make provision for three consecutive starting attempts. Thereafter the set must be switched off, and the start failure relay on the switchboard must give a visible and audible indication of the fault.

To prevent the alternator being electrically connected to the mains supply when the mains supply is on and vice versa, a safe and fail proof system of suitably interlocked contactors shall be supplied and fitted to the changeover switchboard.

## SECTION 3 – TECHNICAL SPECIFICATION

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### 3. SECTION 3 – TECHNICAL SPECIFICATION

#### 3.1. General

Supply, deliver, install, commission, test and maintain an emergency generating set at **Dordrecht Correctional Centre, Dordrecht, Eastern Cape.**

This installation must comply fully with all the sections and drawings of this document. This technical specification is supplementary to the Equipment Requirements, Section 2, and must be read together where they are at variance the Technical Specification shall apply.

The set must be installed in the plant room.

#### 3.2. Site Information and Conditions

##### 3.2.1. Location

The site is at **Dordrecht Correctional Centre, 6 Oliver Street, Dordrecht, Eastern Cape.**

##### 3.2.2. Site Conditions

The following site conditions will be applicable and equipment shall be suitably rated to develop their assigned rating and duty at these conditions.

- a) Height above sea level : **1 600** Meter
- b) Maximum ambient temperature : **25** °C
- c) Maximum ambient humidity at lowest temperature : **18** %

#### 3.3. Output and Voltage

After the de-rating factors for the engine and generator due to site conditions have been taken into account, the set must have a site output and voltage as follows: -

|                           |   |              |
|---------------------------|---|--------------|
| No load voltage           | : | 400/230 Volt |
| Rating                    | : | 100 kVA      |
| Power at 0.9 power factor | : | 90 kW        |
| Frequency                 | : | 50 Hz        |
| Fault Level               | : | 25 kA        |

The generating set is required to feed the following electrical load:

|                      | Load<br>KW | Power<br>factor |
|----------------------|------------|-----------------|
| Fluorescent lighting | 3.2        | 0.8             |
| Plugs                | 27         | 0.8             |
| Server               | 2          | 0.8             |
| Kitchen Equipment's  | 51.45      | 0.8             |
| Cold Room            |            |                 |
| Security Fencing     |            |                 |

### 3.4. Switchboard/Control Panel Unit

All switch- and control gear shall be rated for a fault current level of 5kA.

The switchboard/control panel unit shall be a free standing floor mounted type, which shall be installed in the plant room.

or

The switchboard shall be surface wall mounting and shall be supplied in accordance with clause 3 of Section 2 of this specification, and shall incorporate the following additional switch gear, accessible through the front panel:

#### **MAIN SWITCHES**

- a. Main Isolator is 200A with 25kA rating of protection circuit breaker for **Main Power**.
- b. Feeder cable for the above is a 95mm<sup>2</sup> 4 Core.
- c. Main Isolator is 160A with 25kA rating of protection circuit breaker for **Standby Power**.
- d. Feeder cable for the above is a 70mm<sup>2</sup> 4 Core.

### 3.5. Cables

The contractor will be responsible for all electrical cable connections associated with the complete generating set installation.

The following cables will be supplied, installed and terminated at the Switchboard by others. Adequate provision shall be made for the termination of these cables at the Switchboard:

|                              |                          |                    |
|------------------------------|--------------------------|--------------------|
| Control Panel fed from Kiosk | PVC/SWA PVC 4 Core Cable | 95 mm <sup>2</sup> |
|------------------------------|--------------------------|--------------------|

### 3.6. Engine

A sump drainpipe must be fitted with a shut-off valve placed in a convenient position outside the base frame to facilitate drainage.

Recommended oil types must be indicated on the engine, or base frames, by means of suitable labels.

All engine instruments shall have clear markings on the faceplates, indicating the normal operating zone(s), maximum and minimum allowable values/limits and danger zone(s).

The flywheel shall be covered by approved hoods.

### 3.7. Alternator

The Alternator shall be of the low harmonic type.

### 3.8. Load Acceptance

The generator set shall be capable of accepting 75% of the specified site electrical output 10 seconds after the starter motor is energised and the remaining 25%, 5 seconds thereafter, i.e. 100% load acceptance shall not exceed 15 seconds.



### **3.9. Generator Room**

The size of the Generator Room will be **4.704 mm** wide x **6.177 mm** long x **2.94 mm** high.

### **3.10. Alarms**

The successful tenderer must pay particular attention to the requirements of the alarms as described in the Equipment Requirements, Section 2.

One alarm hooter and red light shall be supplied and installed on the outside wall of the generator room in the position as shown on the drawing in this specification.

The hooter shall consist of an electronic unit similar and equal to a "Klaxon" - type SY2/725 hooter with a continuously rated output and 110 dB at a distance of 2 metres, and shall be IP55 weatherproof rated.

The warning light shall consist of a 40W flashing red light, which shall be mounted on a galvanised steel frame together with the hooter.

The hooter and light shall be switched on or off simultaneously after initiation or cancellation of an alarm condition. The supply and installation of the wiring between the control board and the alarm unit forms part of this contract.

The successful tenderer must ensure that the hooter control circuit resets automatically after cancellation due to a low fuel condition or battery charger failure, but the visible fault indication must remain, i.e. should the operator continue to run the set, the hooter must sound, should any other condition develop.

A remote alarm panel shall be supplied and installed by the contractor in the control room. This shall be of surface mounting, enamelled sheet metal (colour to approval), minimum depth construction, and shall incorporate a flashing red pilot alarm light, adjustable electronic sounder, and a silence push button. The silence button shall not switch off the pilot light - this shall only be switched off when the alarm is reset at the Generator Panel.

A 2,5mm<sup>2</sup> x 4-core PVC SWA PVC cable will be supplied, installed and terminated by others between the Generator Panel and the Charge Office. The Contractor shall connect this cable at both ends and shall supply and install all switch gear relays, etc. to ensure satisfactory operation of the Remote Alarm Panel.

### **3.11. Remote Control Generator Switch**

A Remote Control Generator "ON/OFF/AUTO" switch will be supplied and installed by others in the control room, and a 2,5mm<sup>2</sup> x 4-core PVC SWA PVC cable will be supplied and installed by others between the control room and the Generator Panel.

The contractor shall connect this cable at both ends, and shall supply and install all switch gear, relays, etc. to ensure satisfactory operation of the remote control switch.

### **3.12. Fuel Drip Tray**

A drip tray approximately 100mm deep shall be mounted below the fuel tank and must be large enough to collect any fuel that drips from the tank accessories. The drip tray shall be manufactured from black mild steel. The thickness of the drip tray sheet steel shall not be less than 2mm.

### **3.13. Completion Time**

The Generator Set is required to be commissioned in conjunction with the building contract.

### **3.14. Inform**

The successful tenderer shall inform the Engineer when the set is ready for installation.

### **3.15. Fuel Supply Tank**

The fuel tank shall be a free-standing type, which shall be installed in the plant room. The tank shall have sufficient capacity for the generating set to run the engine on full load for a period of 24 hours. A diesel containment tank shall be mounted below the fuel tank and must be large enough (110% of the diesel tank) to collect any fuel that might spill from the tank. The containment tank shall be manufactured from black mild steel with a thickness of not less than 2mm.

As an alternative to the free-standing type the fuel tank can be an integral part of the base frame of the generator set. The tank shall have sufficient capacity to run the engine on full load for a period of 24 hours. The base tank shall be an open channel self-bund walled type that shall be of sufficient capacity to contain a spillage equivalent to 110% in volume of the base tank. The containment tank shall be manufactured from black mild steel with a thickness of not less than 2mm.

A float level alarm connected to the generator controller shall be incorporated into the bund area located such that the alarm will be activated when 50% of the volume of the bund area has been reached in the event of any diesel fuel leakage.

**SECTION 4 – SCHEDULES OF TECHNICAL INFORMATION**  
**(TO BE FULLY COMPLETED BY TENDERER)**

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## 4. SECTION 4 – SCHEDULES OF TECHNICAL INFORMATION

### 4.1. Engine

| NO  | ITEM   | REMARKS |
|-----|--|---------|
| 1.  | Manufacturer's Name  |         |
| 2.  | Country of Origin  |         |
| 3.  | Manufacturer's model No. and year of manufacture   |         |
| 4.  | Continuous sea level rating after allowing for ancillary equipment :<br>a) In b.h.p.<br>b) In kW   |         |
| 5.  | Percentage de-rating for site conditions, in accordance with SANS 8528<br><br>a) For altitude<br>b) For temperature<br>c) For humidity<br>d) Total de-rating   |         |
| 6.  | Net output on site in kW   |         |
| 7.  | Nominal speed in r.p.m.  |         |
| 8.  | Number of cylinders  |         |
| 9.  | Strokes per working cycle  |         |
| 10. | Stroke in mm   |         |
| 11. | Cylinder bore in mm  |         |
| 12. | Swept volume in cm <sup>3</sup>  |         |
| 13. | Mean piston speed in m/min   |         |
| 14. | Compression ratio  |         |
| 15. | Cyclic irregularity  |         |
| 16. | Fuel consumption of the complete generating set on site in l/h of alternator output at :<br><br>a) Full load<br>b) ¾ load<br>c) ½ load<br><br>NOTE :<br><br>A tolerance of 5% shall be allowed above the stated value of fuel consumption. |         |
| 17. | Make of fuel injection system.   |         |
| 18. | Capacity of fuel tank in litres  |         |
| 19. | Is gauge glass fitted to tank?   |         |
| 20. | Is electric pump for filling the fuel tank included?   |         |

| NO  | ITEM   | REMARKS |
|-----|--|---------|
| 21. | Method of starting   |         |
| 22. | Voltage of starting system   |         |
| 23. | Method of cooling  |         |
| 24. | Type of radiator if water-cooled   |         |
| 25. | Type of heater for warming cylinder heads  |         |
| 26. | Capacity of heater in kW   |         |
| 27. | Method of protection against high temperature  |         |
| 28. | Method of protection against low oil pressure  |         |
| 29. | Type of governor   |         |
| 30. | Speed variation in %<br>a. Temporary<br>b. Permanent   |         |
| 31. | Minimum time required for as assumption of full load in seconds  |         |
| 32. | Recommended interval in running hours for :<br>a. Lubricating oil change<br>b. Oil filter element change<br>c. Decarbonising |         |
| 33. | Type of base   |         |
| 34. | Can plant be placed on solid concrete floor?   |         |
| 35. | Are all accessories and ducts included?  |         |
| 36. | Is engine naturally aspirated?   |         |
| 37. | Are performance curves attached?   |         |
| 38. | Diameter of exhaust pipe   |         |
| 39. | Noise level in plant room in dBA   |         |
| 40. | Noise level at tail of exhaust pipe in dBA   |         |
| 41. | BMEP (4 stroke) at continuous rating (kPa)   |         |
| 42. | % Load acceptance to SANS 8528, with 10% transient speed drop  |         |

#### 4.2. Alternator

| NO  | ITEM   | REMARKS |
|-----|--|---------|
| 1.  | Maker's name and model no.   |         |
| 2.  | Country of Origin and year of manufacture  |         |
| 3.  | Type of enclosure  |         |
| 4.  | Nominal speed in r.p.m.  |         |
| 5.  | Number of bearings   |         |
| 6.  | Terminal voltage   |         |
| 7.  | Sea level rating kVA at 0,9 power factor   |         |
| 8.  | De-rating for site conditions  |         |
| 9.  | Input required in kW   |         |
| 10. | Method of excitation   |         |
| 11. | Efficiency at 0,9 power factor and :<br>a) Full load<br>b) $\frac{3}{4}$ load<br>c) $\frac{1}{2}$ load |         |
| 12. | Maximum permanent voltage variation in %   |         |
| 13. | Transient voltage dip on full load   |         |
| 14. | Voltage recovery on full load application in milli-seconds   |         |
| 15. | Is alternator brushless?   |         |
| 16. | Class of insulation of windings  |         |
| 17. | Is alternator tropicalised?  |         |
| 18. | Symmetrical short circuit current at terminals n Ampere  |         |
| 19. | Type of Coupling   |         |

#### 4.3. Switchboard

| NO  | ITEM   | REMARKS |
|-----|--|---------|
| 1.  | Maker's Name   |         |
| 2.  | Country of Origin  |         |
| 3.  | Is board floor mounted?  |         |
| 4.  | Finish of board  |         |
| 5.  | Make of volt, amp, and frequency meters  |         |
| 6.  | Dial size of meters in mm  |         |
| 7.  | Scale range of voltmeter   |         |
| 8.  | Scale range of ammeters  |         |
| 9.  | Ration of current transformers   |         |
| 10. | Make of hour meter   |         |
| 11. | Range of cyclometer counter  |         |
| 12. | Smallest unit shown on counter (Item 11)   |         |
| 13. | Make of circuit breaker  |         |
| 14. | Type of circuit breaker  |         |
| 15. | Rating of circuit breaker in Amp and fault level in kA   |         |
| 16. | Setting range of overload trips  |         |
| 17. | Setting range of instantaneous trips   |         |
| 18. | Make of change-over equipment  |         |
| 19. | Make of voltage relay  |         |
| 20. | Is control and protection equipment mounted on a small removable panel?  |         |
| 21. | Type of control equipment  |         |
| 22. | Make of mains isolator   |         |
| 23. | Type of indicators for protective devices  |         |
| 24. | Make of rectifier  |         |
| 25. | Type of rectifier  |         |
| 26. | Is battery charging  |         |
| 27. | Are volt- and ammeters provided for charging circuit?  |         |
| 28. | Is the alarm hooter of the continuous duty type?   |         |
| 29. | Rating in Amps of :<br>a. Change-over equipment<br>b. Mains on load isolator<br>c. By-pass switch<br>d. Circuit breaker to outgoing feed |         |
| 30. | Is manufacture of switchboard/control panel to be sub-let?   |         |

| NO  | ITEM  | REMARKS |
|-----|---|---------|
| 31. | If yes, state name and address of specialist manufacturer |         |

#### 4.4. Battery

| NO | ITEM                       | REMARKS |
|----|----------------------------|---------|
| 1. | Maker's Name               |         |
| 2. | Country of Origin          |         |
| 3. | Type of battery            |         |
| 4. | Voltage of battery         |         |
| 5. | Number of cells            |         |
| 6. | Capacity in cold crank amp |         |

#### 4.5. Dimensions

| NO | ITEM   | REMARKS |
|----|--|---------|
| 1. | Overall dimensions of set in mm                                |         |
| 2. | Overall mass   |         |
| 3. | Is the generator room adequate for the installation of the set |         |

#### 4.6. Deviation from the Specification as an Alternative (State Briefly)

| NO | DESCRIPTION |
|----|-------------|
|    |             |
|    |             |
|    |             |
|    |             |

#### 4.7. Spare Parts and Maintenance Facilities

| NO | ITEM  | REMARKS |
|----|---|---------|
| 1  | Approximate value of spares carried in stock for this particular diesel engine and alternator |         |
| 2  | Where are these spares held in stock  |         |
| 3  | What facilities exist for the servicing of the equipment offered                              |         |
| 4  | Where are these facilities available  |         |

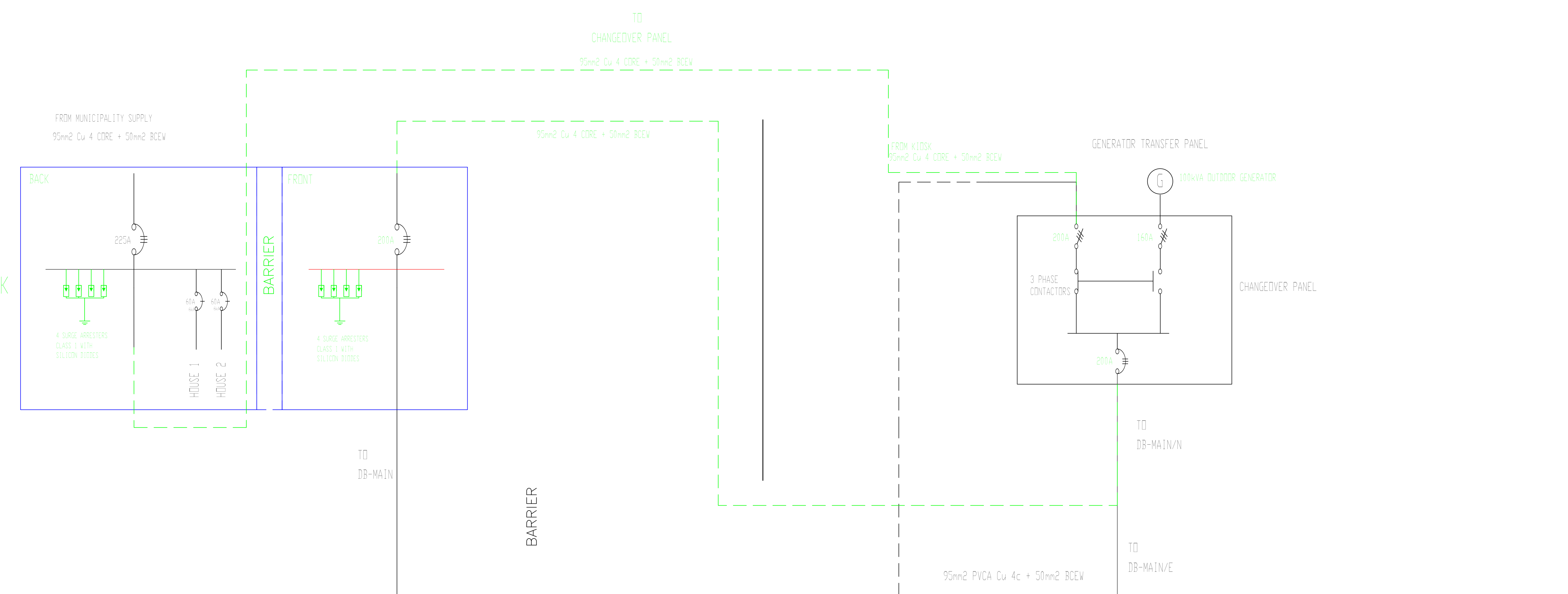


| No. | DATE | AMENDMENT | D.P.W. |
|-----|------|-----------|--------|
|     |      |           |        |

**GENERAL NOTES:**

- THIS DRAWING IS ISSUED FOR INFORMATION ONLY.
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE ELECTRICAL SPECIFICATIONS, DETAIL DESIGN REPORT AS WELL AS OTHER DRAWINGS THAT FORM PART OF THE SPECIFICATION.
- THIS DRAWING DOES NOT SHOW THE EXACT CABLE WAY. HENCE, MUST NOT BE USED TO MEASURE CABLE LENGTHS.
- ALL CABLES MUST BE MEASURED ON SITE BEFORE PURCHASING.

| LEGEND |                                   |
|--------|-----------------------------------|
| SYM    | DESCRIPTION                       |
|        | ISOLATOR & SIZE                   |
|        | CIRCUIT BREAKER & SIZE            |
|        | SURGE/LIGHTNING PROTECTION DEVICE |
|        | EARTH LEAKAGE UNIT                |
|        | CONTACTOR                         |
|        | ELECTRIC METER                    |
|        | GENERATOR                         |
|        | PROPOSED CONFIGURATION            |
|        | PROPOSED NEW KIOSK                |



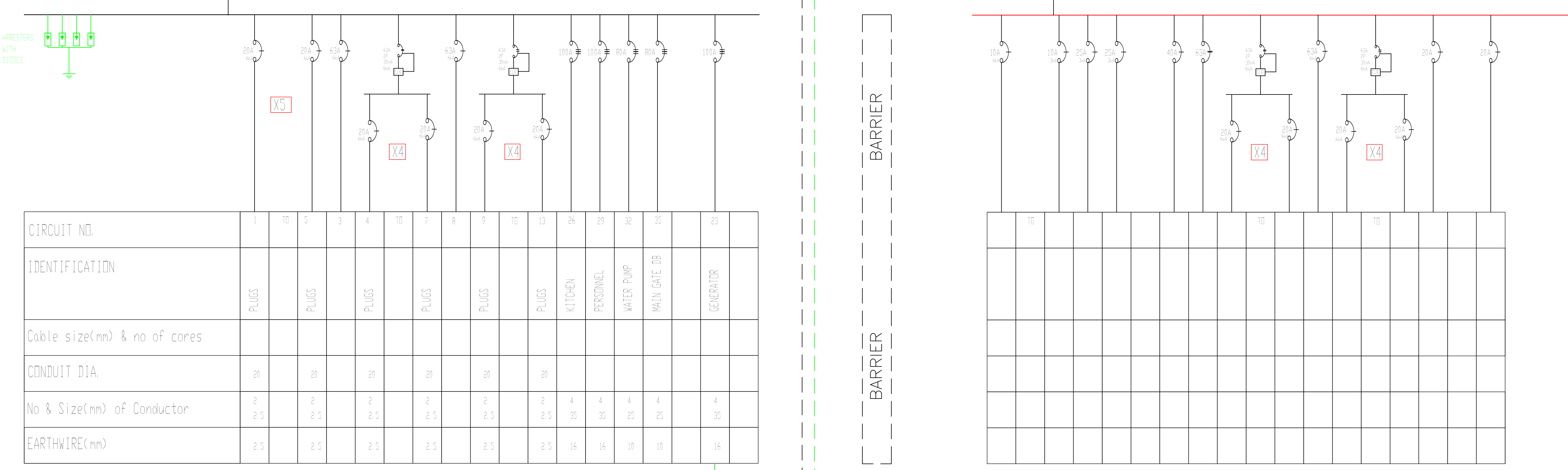
**EQUIPMENT QUANTITIES**

BUSBAR RATING = 200A  
 FAULT LEVEL = 6kA

NAME: DB-MAIN  
 TYPE: WALL MOUNTED  
 FAULT LEVEL: 6kA  
 FEEDERS IN: TOP  
 COLOUR: PANELS - ORANGE  
 FRAME - RED  
 INSIDE - RED

NAME: DB-MAIN/E  
 TYPE: WALL MOUNTED  
 FAULT LEVEL: 6kA  
 FEEDERS IN: TOP  
 COLOUR: PANELS - ORANGE  
 FRAME - RED  
 INSIDE - RED

NOTE: 1. ALLOW SPACE FOR 2 EXTRA 3-PHASE BREAKERS  
 2. ALLOW SPACE FOR 4 EXTRA 1-PHASE BREAKERS



| CIRCUIT NO.                  | 1        | 10       | 5        | 3        | 4        | 10       | 7        | 9        | 5        | 10       | 13       | 10        | 10         | 10           | 10        | 10       | 10       | 10       | 10       |
|------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|------------|--------------|-----------|----------|----------|----------|----------|
| IDENTIFICATION               | PLUGS    | PLUGS    | PLUGS    | PLUGS    | PLUGS    | PLUGS    | PLUGS    | PLUGS    | PLUGS    | PLUGS    | KITCHEN  | RECEPTION | WATER PUMP | MAIN GATE DB | GENERATOR |          |          |          |          |
| Cable size(mm) & no of cores |          |          |          |          |          |          |          |          |          |          |          |           |            |              |           |          |          |          |          |
| CONDUIT DIA.                 | 20       | 20       | 20       | 20       | 20       | 20       | 20       | 20       | 20       | 20       | 20       | 20        | 20         | 20           | 20        | 20       | 20       | 20       | 20       |
| No & Size(mm) of Conductor   | 2<br>2.5 | 2<br>2.5 | 2<br>2.5 | 2<br>2.5 | 2<br>2.5 | 2<br>2.5 | 2<br>2.5 | 2<br>2.5 | 2<br>2.5 | 2<br>2.5 | 2<br>2.5 | 2<br>2.5  | 2<br>2.5   | 2<br>2.5     | 2<br>2.5  | 2<br>2.5 | 2<br>2.5 | 2<br>2.5 | 2<br>2.5 |
| EARTHWIRE(mm)                | 2.5      | 2.5      | 2.5      | 2.5      | 2.5      | 2.5      | 2.5      | 2.5      | 2.5      | 2.5      | 2.5      | 2.5       | 2.5        | 2.5          | 2.5       | 2.5      | 2.5      | 2.5      | 2.5      |

|   |                          |                                   |                                      |                   |                           |
|---|--------------------------|-----------------------------------|--------------------------------------|-------------------|---------------------------|
| SCHEMATIC DIAGRAM OF : DB - MAIN            | TYPE: WALL MOUNTED       | DOORS: YES                        | LOCKS ON DOORS: YES                  | FACIA PANELS: YES | LOCKABLE FACIA PANEL: N/A |
| PROJECT : INSTALLATION OF BACK-UP GENERATOR | EXTERNAL COLOUR : ORANGE | COLOUR OF NORMAL FACIA PANEL: RED | COLOUR OF EMERGENCY FACIA PANEL: RED |                   |                           |
| ISSUE DATE : AUGUST 2022                    |                          |                                   |                                      |                   |                           |

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**NATIONAL DEPARTMENT OF PUBLIC WORKS AND  
INFRASTRUCTURE**

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**TECHNICAL SPECIFICATIONS  
KITCHEN EQUIPMENT**

**DORDRECHT CORRECTIONAL CENTRE – REPAIR AND  
RENOVATION**

**WCS: 044256**

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## **1. INTRODUCTION**

The purpose of this document is to outline the scope of work and specification for kitchen equipment installation at the Dordrecht Correctional Centre, located at Dordrecht, Eastern Cape.

The kitchen equipment contractor is expected to communicate with main contractor on program and site co-ordination issues that could arise on this site. As far as possible equipment should be sourced from South Africa to remove issues that shall arise related to exchange rate and transport.

## **2. SCOPE OF WORK**

The scope of work is the repair of old kitchen equipment if possible and the installation of new kitchen equipment to replace broken equipment.

The contract shall include but not be limited to the following:

- 2.1. Supply, delivery and installation of all the equipment, services and systems, as specified, including testing, commissioning, certification and final handover.
- 2.2. The provision of all necessary wiring from isolators to equipment.
- 2.3. Installation workshop drawings.
- 2.4. Record "as-built" drawings for the kitchen, including wiring schematics and electrical drawings.
- 2.5. Operating and maintenance manuals for equipment.
- 2.6. Commissioning and testing of all equipment.

## **3. KITCHEN EQUIPMENT**

### **3.1. General**

Any equipment, conduit or pipe supports that may be required must be allowed for. All kitchen equipment shall be of well-known manufacture, represented in South Africa for at least 15 years.

Unless otherwise specified, all stainless steel used in the construction of units/equipment shall be of type 304 not less than 1,2mm thick. The construction of the units generally is to comply with the Standard Specification for Stainless Steel Sinks for Institutional Use, SANS 907.

All exposed surfaces of stainless steel to be satin finished, except where otherwise specified. The finish shall be of approximately 220 to 240 grit.

The units, except where specified as being movable or mobile, must be securely fixed to floors either by non-ferrous bolts in the surface bed or by substantial nonferrous screws into plugs in the floor.

All welding is to be done in the most up-to-date manner and to be cleaned off flush and smooth where exposed.

### **3.2. Three Plate Solid Top Stove without Oven**

Shall be of heavy duty construction, finished in 430 stainless steel, and have three heat switches to control the top plates. Top should be thermostatically controlled from 50-250°C.

Shall be mounted on four stainless steel legs with adjustable feet.

### **3.3. Four Burner Gas Stove with Oven**

Gas stove should be of a heavy duty construction finished in 430 stainless steel. Top burners should have a hi-low gas valve and have a pilot and flame failure device. Stove top should have four burners and stove should have a built in oven. Stove should be mounted on four stainless steel legs with adjustable feet.

### **3.4. Band Saw**

Band saw should be a heavy duty floor standing unit suitable for butchers use with the driving motor mounted integrally. The band saw should be finished in 304 stainless steel.

### **3.5. Cold room**

Cold room refrigeration system should be suitably sized for the size of cold room, intended product storage amounts and intended use. Any equipment installed in areas where inmates can access it should be protected by a lockable enclosure.

### **3.6. Potato Peeler**

Potato peeler should be of a stainless steel construction and be mounted on a dedicated stand.

### **3.7. Extraction Canopy**

Extraction canopy should be of stainless steel construction and be suitably sized for equipment mounted under it.

### **3.8. Combination Steam Oven**

Shall be of the single compartment type with a high capacity steam generator producing pressure-less steam for steaming of meat, fish and vegetables in bulk. Shall be fitted with at least one convection fan. Shall be of heavy duty construction and be finished in 304 stainless steel.

Suitable approved insulation at least 40mm thick shall be provided between the inner and outer stainless steel skin.

The unit shall have a hinged door with a transparent inspection panel and self-sealing door gasket.

### **3.9. 135 L Oil Jacketed Boiling Pot (Phutu Pot)**

Oil jacketed boiling pots, otherwise known as phutu pots, should be constructed from 304 stainless steel and be supported on four stainless steel legs with adjustable feet. The phutu pot lid should be spring balanced and have a safety handle. A control panel should be welded to the side of the pot opposite the lid hinge and house steam and water control valves as well as electrical equipment and wiring. Operating controls should face the front of the pot. Electrical equipment and wiring should be mounted in a separate waterproof compartment within the control panel. Pot should be thermostatically controlled between 50°C and 160°C with a 180°C safety overriding thermostat. The drain pipe should be fitted with a stainless steel ball valve.



### **3.10. 150 L Steam Jacketed Boiling Pot (Phutu Pot)**

Steam jacketed boiling pots, otherwise known as phutu pots, should be constructed from 304 stainless steel and be supported on four stainless steel legs with adjustable feet. The phutu pot lid should be counter balanced and have a safety handle. A control panel should be welded to the side of the pot opposite the lid hinge and house steam and water control valves as well as electrical equipment and wiring. Operating controls should face the front of the pot. Electrical equipment and wiring should be mounted in a separate waterproof compartment within the control panel. Heating should be thermostatically controlled. Heating elements should be easily replaceable and suitable for the power supply quoted in the schedule of equipment. Unit should have a safety valve to prevent the maximum working pressure being exceeded.

### **3.11. Sinks (Single/Double Bowl Pot Sinks and Prep Sinks)**

Sinks are to be sized as indicated on the drawing, constructed from a 304 stainless steel top with a heavy duty galvanised backing sheet with vermin proof sound deadening. Table top should have all edges turned downwards and the lower edge of the turned down section should be beaded over.

Legs are to be stainless steel with adjustable feet complete with a flange for bolting to the floor with non-ferrous bolts or screws if required.

Sinks should have a 150 mm high splash back to the rear.

## **4. APPROVALS**

All equipment or material offered shall be from the same manufacturer.

Approval by other organisations shall if it is deemed satisfactory, be granted by the Engineer, on application.

## **5. BATTERY LIMITS**

### **5.1. Electrical**

5.2. Isolator at all kitchen equipment requiring an electrical supply.

## **6. ALLOCATED SPACE**

The physical sizes of the equipment offered shall be suitable for the locations shown on the drawings and shall be positioned in such a manner to ensure reasonable access all around the equipment for maintenance purposes, as recommended by the suppliers of the equipment, or as per any relevant statutory requirements.

Tenderers are to advise the Engineer at close of tender, in the form of a letter enclosed with the tender documents, should any of the plant areas not be adequate to accommodate their equipment. No claim of whatever nature, arising out of the Tenderer's failure to do so, will be entertained.

## **7. COORDINATION WITH OTHER TRADES**

The contractor shall plan his work in advance and shall coordinate all space requirements in conjunction with the Principal Contractor and electrical contractor, especially where other trades share the same space. Where conflicts occur, the contractor shall request clarification from the Architect and/or Engineer.

## **8. BUILDER'S WORK**

The successful tenderer shall, within 14 days of acceptance of this tender, provide the Engineer via the Principal Contractor with all Builder-provided work such as holes, machine bases, chases, recesses, service ducts, wooden sleeves and frames, etc., as herein identified being provided by others and which will be required to accommodate his services.

No structural element shall be erected and no holes shall be cut or made through the structure and no items of equipment shall be supported from the structure without the prior approval of the Structural Engineer or at least the Principal Contractor. Where foundations, machine bases, drained ducts, floor channels, cable sleeves, etc., have been identified herein to be provided by others, the contractor shall liaise and assist the Principal Contractor or others in setting out, locating, etc., of these items.

The contractor shall be responsible for the cost of all cutting, patching, making good, etc., as may be required to accommodate his work, due to late or wrong information been given by the contractor.

## **9. DRAWINGS**

Any drawing which accompanies this specifications illustrates schematics and do not show exact dimensions or positions of equipment. Tenders must satisfy themselves that the equipment offered by them shall fit in the available space and can be positioned so that access for maintenance, repair or removal is not encumbered.

Note: Final dimensions must be taken on site before any equipment or material is either purchased or manufactured.

## **10. SHOP DRAWINGS**

Within 14 days of being awarded the contract the contractor will produce a complete layout in the form of a shop drawings with all the required service connections detailed and dimensioned. Any other shop drawings required to effect the installation shall be produced as required. At the end of the contract, three full sets of "as built" drawings and manuals shall be provided for this contract.

The successful tenderer shall before commencing manufacture of any of the equipment provide a dimensioned shop drawing for approval.

Approval of the contractor's drawings in no way indemnifies him from being responsible for the correctness of the drawings and satisfactory operation of the installations and for equipment.

## **11. WATERPROOFING**

Where any work pierces waterproofing, including waterproof concrete and roofing, the method of installation shall be approved by the Architect and/or Engineer before the work is carried out.

All necessary sleeves, caulking, skirts, soaker sheets, flashing, etc., required to make the openings absolutely water-tight shall be provided by the contractor, or shall be handed over to others for installation.

## **12. ALTERNATIVE MANUFACTURE AND PRICES**

The tendered Subcontract Sum shall be for work and materials as specified herein. Should the tenderer wish to offer alternative equipment, etc., the details shall be submitted in a

covering letter accompanying the tender and clearly identifying the extent, quality and advantages of the alternative(s).

Acceptance of the alternative(s) shall be at the discretion of the Engineer.

Any price submitted for alternatives, variations, extras, saving, omissions, etc., whether prior to tender acceptance or during the construction stage of the works shall be taken to include the applicable Value Added Tax (VAT), unless clearly identified otherwise at the time of its submission.

### **13. MATERIALS, WORKMANSHIP AND EQUIPMENT OFFERED**

Materials, workmanship and equipment offered shall be as specified and comply with the specification.

All material and equipment shall be new, free from rust, defects, undamaged and suitable for the purpose for which it will be used. Material shall comply with the latest issue of the relevant SANS specifications where applicable.

If any material or workmanship is not to the satisfaction of the Department, it shall be rectified and /or replaced at the contractor's cost and all rejected material shall immediately be removed from the site. The contractor is responsible for the correct and complete erection of the installation and inspections executed by the Department do not exempt the contractor of this obligation.

The term 'approved equal', as used herein, shall mean an item generally the same as the specified one, but of different manufacture. It shall meet all the specified parameters and approval for its use shall be obtained in writing from the Engineer.

### **14. STATUTORY AND REGULATORY REQUIREMENTS, DOCUMENTATION AND DRAWINGS**

This supplementary specification is to be read as forming part of one or more Department of Public Works and Infrastructure Standard Specifications. The Department Standard Specifications for the Electrical Installations and Electrical Equipment pertaining to Mechanical Services shall also apply.

All equipment and installations shall comply with the requirements of the Occupational Health and Safety Act.

Where conditions are at variance this supplementary specification shall have preference over both the standards specifications and the drawings.

The Complete works shall comply in particular with the specifications and requirements of:

- 14.1. SANS 10252-1: Water supply to buildings
- 14.2. SANS 460: Plain-ended solid drawn copper tubes for potable water
- 14.3. SANS 241-1: Drinking water Part 1: Microbiological, physical, aesthetic and chemical determinants
- 14.4. SANS 241-2: Drinking water Part 2: Application of SANS 241-1
- 14.5. SANS 10140: Identification colour marking
- 14.6. SANS 15875: Plastics piping systems for hot and cold water installations
- 14.7. SANS 10142: The wiring of premises
- 14.8. SANS 10400-A: General principles and requirements
- 14.9. The Occupational Health and Safety Act, Act 85 of 1993, as amended.

This detailed specification and the drawings form part of the tender documents.

Deviation from this specification shall immediately be reported to the Engineer.

The works shall furthermore comply with all the requirements and bylaws of the relevant local authority. Where the proposed layouts, or any of the materials specified, etc., do not comply with these regulations, the matter shall immediately be brought to the attention of the Engineer.

Certificates of approval/ inspection from the local and/or statutory authorities shall be submitted to the Engineer before the final payment certificate will be issued.

The contractor shall furthermore issue all notices and pay all fees required to be given or paid in terms of statutory and regulatory requirements and the relevant local authority's bylaws.

## **15. SANS SPECIFICATION**

All references to the South African National Standards and Codes of Practice shall be deemed to be references to the latest issues of such specifications and codes.

## **16. GUARANTEE AND MAINTENANCE**

The tenderer shall guarantee equipment for a period of twelve months from the date on which the installation /fixing of all the units is satisfactorily completed.

The contractor shall repair, at his own cost, defects that may become defective during the guarantee period due to the inferior materials or workmanship (fair wear and tear excluded). Any part so replaced, shall be guaranteed for a further year from the date of replacement.

The contractor shall provide free maintenance for a period of 1 (one) year following the hand over to the client. The maintenance shall include for all management, labour, lubricating materials, cleaning materials and transport

## **17. SUBMISSION BY CONTRACTOR**

The contractor shall take note that all equipment selections approved by the Engineer shall not relieve the contractor of his obligations to comply with the specification.

The following information with regard to specified equipment shall be submitted to the Engineer:

- Manufacturer, name and model
- Motor capacity
- Power Consumption
- Diagrams, tables and graphs detailing the performance of the equipment where applicable.
- Applicable pamphlets or catalogue information
- Name and address of manufacturer and/or distributor
- Number of years that equipment has been available in RSA
- Any other relevant information required by the Engineer

The above submissions are required after the appointment of the Contractor and in accordance with the requirements of the main contract programme.

## **18. COMPREHENSIVE CONTRACTS AND SUB-CONTRACTORS**

Only specialists sub-contractors who have previously successfully completed mechanical installations of the extent and type specified in this document shall be considered.

Note: No change in make, type, or capacity of equipment specified in the schedule of particulars shall be allowed after acceptance of the tender without the written approval of the Department.

## **19. SUPPORTS**

No supports for the piping etc. are shown on the drawings. The Contractor shall allow for sufficient supports as specified in the Standard Specification for Plumbing & Drainage installations.

## **20. PERFORMANCE OF SYSTEMS AND EQUIPMENT**

The systems and equipment layout designed by the Engineer shall conform to the requirements with regard to installation and system performance. This suggests that the performance of the equipment in the system supplied and installed by the contractor, shall be in accordance with the design and performance figures as published by the manufacturers and/or suppliers.

The efficiency of the design of the specified system is not the responsibility of the contractor. It is, however, the responsibility of the contractor to ensure that the quality of the workmanship and the installation of the equipment shall conform to the requirements of the Engineer and to the supplier/manufacturer.

It is furthermore accepted that the contractor has assured himself that all equipment supplied and installed under the contract shall perform within the given limits, as stated by the supplier/manufacturer, conforming to the specification.

## **21. PAINTING**

All equipment, where required, shall be painted.

The colour of the materials and equipment shall be painted in accordance with SANS 10140: Identification colour markings Part 3: Contents of pipelines.

## **22. CORROSION PRECAUTIONS AND FINISHES**

All materials such as brackets, hanger, etc., shall be shot-blasted, pre-painted, galvanised or treated against corrosion prior to their delivery to site. Any work that will require site cutting, etc., i.e. exposure of the bare steel to the atmosphere, shall immediately be treated by cold galvanising, painting, etc.

The method of treatment for the above shall depend on the particular environment and type of surface to be coated. The surface preparation, primer coats, finishing coats, etc. shall therefore be in accordance with those specified by reputable paint manufacturers.

All black steel piping, support brackets, hangers, etc., installed inside the building shall be treated with two coats of corrosion inhibitor paint prior to installation. The first coat shall be allowed to dry completely before the next coat is applied. A further coat of corrosion inhibitor shall be applied after installation and allowed to dry completely. Two coats of enamel paint, to the Architect or Engineer's specification, shall finally be applied. The first coat shall be allowed to dry completely before the next coat is applied.

All black steel piping, support brackets, hangers, etc., exposed to the weather shall be hot dipped galvanised.

All duct, supports, equipment and materials exposed to view (i.e. not in shafts, false ceiling, bulkheads, etc.) shall be cleaned, primed and then finished with two coats of enamel paint to the Architect or Engineer's specification. Each application shall be allowed to dry completely before the next coat is applied. The only exception to these stipulations shall be in the case of subcontracts, where the contractor shall only apply the primer coats and the Principal Contractor the finishing coats.

Colour coding shall follow the coding currently used on site. If no colour coding is in use, or in the case of new installations, the latest SANS 10140 Standards shall be used.

Plant and equipment, pre-painted or pre-primed at the factory shall be examined to ensure that the paint finishes are in a good condition. If not satisfactory, priming paint or finishing coats shall be removed where necessary, the surface cleaned to remove rust, and all such surfaces re-primed and finished in two coats of high quality paintwork to match the original.

The contractor shall fix black on white ivorine labels to all items of equipment (machinery, fans, pumps, electric heater batteries, humidifiers, air handling units, etc.), as well as to all active valves (motorised and solenoid) and major isolating valves.

The labels shall be screwed or pop-riveted to the equipment and attached to the valves with steel cables. The lettering shall not be less than 10 mm in height and the wording shall be approved by the Engineer. The wording and tag numbers shall be the same as those used in this specification and indicated on the drawings.



## **23. DAMAGE**

The tenderer will be held entirely responsible for any damage which may occur to equipment during the transportation, setting into position and fixing and must make good any such damage at his/her own risk.

No patching or repairing of damaged units will be allowed unless such damage can be completely effectively repaired and to the entire satisfactions of the Representative/Agent.

## **24. TUITION**

The contractor shall provide capable instructor/s to train the client's personnel. These instructor/s shall be available for a total period of 1 (one) working day (eight hours) after the system has been commissioned and handed over to the client. The Operating and Maintenance Manuals shall be in possession of the client before the training commences.

## **25. TENDER SUBMISSIONS**

Tender submissions shall conform strictly to the specification requirement. Tenders that are not in accordance with the specification will not be considered.

## **26. COMMISSIONING**

Commissioning of the works shall form part of the Subcontract. Commissioning shall be meticulous and all procedures as stipulated by the suppliers of the equipment shall be strictly adhered to.

The contractor shall prepare detailed commissioning schedules well in advance of the programmed practical completion inspection date.

The schedules shall make allowance for all measurements that will be required, checking of operational and safety set-points, test results, etc., and shall be submitted to the Engineer for approval prior to the start of commissioning.

The contractor shall submit the completed schedules to the Engineer for checking after commissioning has been completed, and prior to the practical completion inspection.

The contractor is forewarned that the Engineer will under absolutely no circumstances deviate from the above procedure. The Engineer furthermore reserves the right to refuse to carry out

the practical completion inspection until the contractor has complied with the above stipulations. The contractor shall accept this reserved right by the act of tendering.

Each task in these schedules shall be countersigned by the contractor's Commissioning Engineer to ensure that any discrepancies between site and commissioning conditions/data can be clarified.

All piping systems to be pressure tested to 1.5 times working pressure i.e. 900 kpa. Cold commissioning must be witnessed by the engineer of the project.

Hot commissioning must be undertaken with the relevant suppliers present to ensure final checking and guarantees are in place.

The minimum commissioning requirements are:

Initial visual check

- Correct models, types, etc. provided.
- Equipment located in correct positions and parallel to building lines unless otherwise specified.
- Shipping fasteners, clamps, etc. removed or released.
- Joints tight and correctly fitted.
- All fasteners in position and tight.
- Coil piping correct configuration. (Counter flow, IN-at-the-bottom, OUT-at-the- top, etc.).
- Existence of sufficient and where applicable correctly fitted bleed-off, vent valves, drains etc., as specified. (Both at components and in pipework).
- Thermal expansion and contraction allowances.
- Access panels provided and are hinged complete with handles, patches, locks etc.
- Natural free movement of rotary/moving equipment.
- Proper isolation of rotary/moving equipment (check canvas collars anti-vibration mounts, flexible couplings/rubber mounts, etc.).
- Soundness and alignment of general supports.
- Grommets provided against chaffing at all pipe cables, etc. penetrations through housings etc.
- Installation workmanship and finish.

## **27. OPERATING AND MAINTENANCE MANUALS**

Three sets of operating and maintenance manuals shall be prepared by the contractor. These manuals shall be submitted to the Engineer for approval 1 week prior to the programmed date for the practical completion inspection.

Tenderers are to note that the said practical completion inspection shall not be carried out prior to the approval of these operating and maintenance manuals.

The manuals shall be properly bound and titled. Each set shall consist of 4 sections. Each section shall have the following sub-sections:

### **Section 1 - Operation**

#### **Introduction:**

Short description of the complete system to familiarise laymen with the system lay-out and operation.

#### **Detailed description:**

A detailed description of each system and its equipment, complete with schematic drawings. The purpose of this system is to explain the intended operation of each system and item of equipment to technical personnel. Detailed descriptions of the operation, set-points, adjustments, etc., are thus to be included.

### **Section 2 - Commissioning data**

#### **Schedules of data:**

Detailed schedules of commissioning data of all the systems shall be included in this section for future reference. These schedules shall include, amongst others, air flow rates, major equipment power draws, pressure drops, etc.

### **Section 3 - Maintenance**

#### **Schedules:**

This section shall contain detailed maintenance and service schedules for the complete installation.

#### **Equipment details:**

This section shall contain manufacturers' brochures, spare parts lists, etc., of all the items of equipment.

#### **List of suppliers:**

The list of suppliers (complete with addresses and telephone numbers) for each item of equipment shall be included in this section.

#### **Section 4 - Drawings**

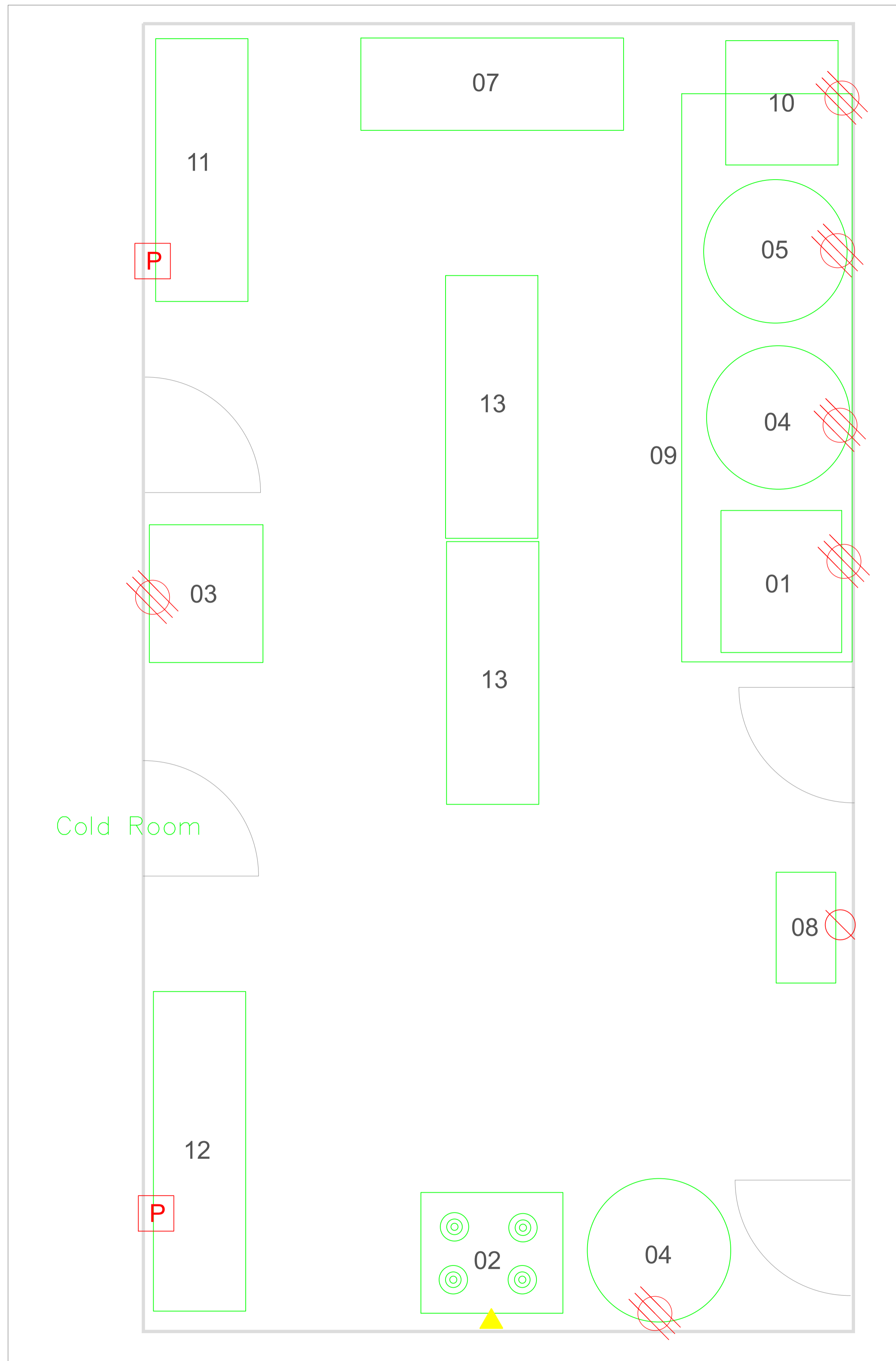
##### **As-built drawings:**

A complete set of as-built drawings shall be enclosed in this section.

#### **28. DRAWINGS**

The following drawings form part of this document:

| <b>No</b> | <b>Description</b>    | <b>Drawing Number</b>    |
|-----------|-----------------------|--------------------------|
| 1         | Kitchen Layout Sketch | 044256-DCC-KITCHEN-DR-01 |



KITCHEN EQUIPMENT LAYOUT SKETCH  
Scale : NTS

| Equipment Schedule: Kitchen |   |                 |            |             |                   |                  |             |                       |          |                        |  |
|-----------------------------|---|-----------------|------------|-------------|-------------------|------------------|-------------|-----------------------|----------|------------------------|--|
| Level: Ground               |   |                 |            |             |                   |                  |             |                       |          |                        |  |
| No.                         | Item  | Dimensions (mm) |            |             | Electrical Supply |                  | Weight (kg) | Water and Drain Point | Quantity | Reuse, Repair/ Replace |  |
|                             |   | Width (mm)      | Depth (mm) | Height (mm) | Phase             | Power Input (kW) |             |                       |          |                        |  |
| 1                           | 3 Plate Solid Top Stove without Oven                      | 1000            | 850        | 910         | 3                 | 18               | 270         | N                     | 1        | Replace                |  |
| 2                           | 4 Burner Open Gas Stove with Oven                         | 1000            | 850        | 910         | -                 | -                | -           | N                     | 1        | Replace                |  |
| 3                           | Band Saw  | 970             | 800        | 1860        | 3                 | 1.5              | 175         | N                     | 1        | Replace                |  |
| 4                           | Steam Jacketed Boiling Pot 150 L (Phutu Pot)              | -               | -          | -           | 3                 | 18               | -           | Y                     | 2        | Replace                |  |
| 5                           | Dil Jacketed Boiling Pot 135 L (Phutu Pot)                | 920             | 947        | 880         | 3                 | 9                | 100         | Y                     | 1        | Replace                |  |
| 6                           | Walk-in Cold Room Evaporator, Blower and Condenser System | -               | -          | -           | -                 | -                | -           | D                     | 1        | Replace                |  |
| 7                           | Double Bowl Pot Sink with Splashback                      | 1850            | 650        | 910         | -                 | -                | 57          | Y                     | 1        | Replace                |  |
| 8                           | Potato Peeler 15 kg with stand                            | 780             | 420        | 1400        | 1                 | 0.75             | 75          | N                     | 1        | Replace                |  |
| 9                           | Extraction Canopy   | 4000            | 1200       | 750         | -                 | -                | 170         | D                     | 1        | Reuse                  |  |
| 10                          | Combination Oven  | 876             | 791        | 1057        | 3                 | 19.5             | 129         | Y                     | 1        | Reuse                  |  |
| 11                          | Single Bowl Prep Sink with Dump and Splashback            | 1850            | 650        | 910         | -                 | -                | 57          | Y                     | 1        | Reuse                  |  |
| 12                          | Table with Undershelf with Splashback                     | 2250            | 650        | 910         | -                 | -                | 66          | N                     | 1        | Reuse                  |  |
| 13                          | Table with Undershelf                                     | 2250            | 650        | 910         | -                 | -                | 60          | N                     | 2        | Reuse                  |  |

- General Notes:**
- This drawing is to be read in conjunction with drawings issued by the consultants of various disciplines, in particular, structural, electrical, mechanical and test services engineers.
  - Any discrepancies between drawings layouts are to be brought to the attention of the architects prior to any work being put in hand.
  - Figured dimensions are to be taken in preference to scaled measurements and large scale details drawings will supersede small scale general layout drawings.
  - Contractors and subcontractors to check all dimensions and levels on site prior to any work being put in hand.
  - All work on site is to conform to good building practice and all relevant national codes and standards.
  - The use of trade names on this drawing is prohibited, and any trade name of equipment used for this project required the approval from the responsible engineer.

| REV | DESCRIPTION     | DATE       | BY       |
|-----|-----------------|------------|----------|
| 0   | DETAILED DESIGN | 21/10/2022 | ST HODGE |
|     |                 |            |          |
|     |                 |            |          |
|     |                 |            |          |

| LEGEND |                         |
|--------|-------------------------|
|        | SINGLE PHASE CONNECTION |
|        | PLUG POINT              |
|        | THREE PHASE CONNECTION  |
|        | GAS CONNECTION          |

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Full Name: \_\_\_\_\_

Professional Registration No.: \_\_\_\_\_



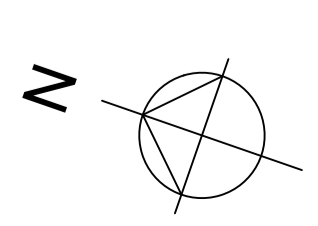
CLIENT  
South African Police Service

| DISCIPLINE                       | ISSUED FOR |
|----------------------------------|------------|
| ARCHITECTURAL                    |            |
| CIVIL AND STRUCTURAL ENGINEERING |            |
| ELECTRICAL ENGINEERING           |            |
| MECHANICAL ENGINEERING           | X          |
| PROJECT TITLE                    |            |

DORDRECHT CORRECTIONAL CENTRE

| DRAWING TITLE                   |                                     |
|---------------------------------|-------------------------------------|
| KITCHEN EQUIPMENT LAYOUT SKETCH |                                     |
| CAPITAL                         | X MAINTENANCE                       |
| WCS NO                          | 044256 DESIGNED BY ST HODGE         |
| SCALE                           | NTS DRAWN BY ST HODGE               |
| DATE                            | 21/10/2022 REVIEWED BY K. CHABALALA |
| CHECKED BY                      | APPROVED BY                         |
| K. CHABALALA (P.Eng)            | K. CHABALALA (P.Eng)                |
| DRAWING NO                      | REV NO.                             |
| 044256-DCI-KITCHEN-DR-01        | 0                                   |
|                                 | SHEET                               |
|                                 | A1                                  |

| DRAWING ISSUED FOR: |   |
|---------------------|---|
| INFORMATION         |   |
| PRELIMINARY DESIGN  |   |
| DETAILED DESIGN     |   |
| TENDER              | X |
| CONSTRUCTION        |   |
| AS BUILT            |   |





**public works**

Department:  
Public Works  
REPUBLIC OF SOUTH AFRICA

# **OCCUPATIONAL HEALTH AND SAFETY**

**IN**

**CONSTRUCTION PROJECTS, REPAIRS,**

**RENOVATIONS & MAINTENANCE**

**MANAGED BY**

**THE DEPARTMENT OF  
PUBLIC WORKS**

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## 1. PREAMBLE

In terms of Construction Regulation 4(1)(a) of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), and 5(1) construction regulation of 2014, the Department of Public Works, as the Client and/or its Agent on its behalf, shall be responsible to prepare Health & Safety Specifications for any intended construction project and provide any Principal Contractor who is making a bid or appointed to perform construction work for the Client and/or its Agent on its behalf with the same.

The Client's further duties are as described in The Act and the Regulations made thereunder. The Principal Contractor shall be responsible for the Health & Safety Policy for the site in terms of Section 7 of the Act and in line with Construction Regulation 5 as well as the Health and Safety Plan for the project.

This 'Health and Safety Specifications' document is governed by the "Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), hereinafter referred to as 'The Act'. Notwithstanding this, cognizance should be taken of the fact that no single Act or its set of Regulations can be read in isolation. Furthermore, although the definition of Health and Safety Specifications stipulates 'a documented specification of all health and safety requirements pertaining to associated works on a construction site, so as to ensure the health and safety of persons', it is required that the entire scope of the Labour legislation, including the Basic Conditions of Employment Act be considered as part of the legal compliance system. With reference to this specification document this requirement is limited to all health, safety and environmental issues pertaining to the site of the project as referred to here-in. Despite the foregoing it is reiterated that environmental management shall receive due attention.

Due to the wide scope and definition of construction work, every construction activity and site will be different, and circumstances and conditions may change even on a daily basis. Therefore, due caution is to be taken by the Principal Contractor when drafting the Health and Safety Plan based on these Health and Safety Specifications. Prior to drafting the Health and Safety Plan, and in consideration of the information contained here-in, the contractor shall set up a Risk Assessment Program to identify and determine the scope and details of any risk associated with any hazard at the construction site, in order to identify the steps needed to be taken to remove, reduce or control such hazard. *This Risk Assessment and the steps identified will be the basis or point of departure for the Health*

*and Safety Plan.* The Health and Safety Plan shall include documented 'Methods of Statement' (see definitions under Construction Regulations) detailing the key activities to be performed in order to reduce as far as practicable, the hazards identified in the Risk Assessment.

The Department of Public Works is tasked to provide accommodation and operational facilities to a very large proportion of the approximate 35 National Departments responsible for the governance of the Department of Public Works. A very large number of State employees and public users of the facilities and the services provided there-in directly interacts with the facilities provided by the well-being, health and safety of a great number of people. This Department thus has directly or indirectly, an impact on the Republic of South Africa as well as the National Parliament.

In this a high premium is to be placed on the health and safety of the most valuable assets of the Department of Public Works. These are its personnel, the personnel of its Clients and the physical assets of which it is the custodian and may also include the public as well. The responsibilities the Department and relevant stakeholders have toward its employees and other people present in the facilities or on the sites are captured further in this specification document. These responsibilities stem from both moral, civil and a variety of legal obligations. The Principal Contractor is to take due cognisance of the above statement.

Every effort has been made to ensure that this specification document is accurate and adequate in all respects. Should it however, contain any errors or omissions they may not be considered as grounds for claims under the contract for additional reimbursement or extension of time, or relieve the Principal Contractor from his responsibilities and accountability in respect of the project to which this specification document pertains. Any such inaccuracies, inconsistencies and/or inadequacies must immediately be brought to the attention of the Agent and/or Client.

## **2. SCOPE OF HEALTH AND SAFETY SPECIFICATION DOCUMENT**

These Specifications should be read in conjunction with the Act, the Construction Regulations and all other Regulations and Safety Standards which were or will be

promulgated under the Act or incorporated into the Act and be in force or come into force during the effective duration of the project. The stipulations in this specification, as well as those contained in all other documentation pertaining to the project, including contract documentation and technical specifications shall not be interpreted, in any way whatsoever, to countermand or nullify any stipulation of the Act, Regulations and Safety Standards which are promulgated under, or incorporated into the Act.

### **3. PURPOSE**

The Department is obligated to implement measures to ensure the health and safety of all people and properties affected under its custodianship or contractual commitments, and is further obligated to monitor that these measures are structured and applied according to the requirements of these Health and Safety Specifications.

The purpose of this specification document is to provide the relevant Principal Contractor (and his /her contractor) with any information other than the standard conditions pertaining to construction sites which might affect the health and safety of persons at work and the health and safety of persons in connection with the use of plant and machinery; and to protect persons other than persons at work against hazards to health and safety arising out of or in connection with the activities of persons at work during the carrying out of construction work for the Department of Public Works. The Principal Contractor (and his /her contractor) is to be briefed on the significant health and safety aspects of the project and to be provided with information and requirements on inter alia:

- a) Safety considerations affecting the site of the project and its environment;
- b) Health and safety aspects of the associated structures and equipment;
- c) Submissions on health and safety matters required from the Principal Contractor (and his /her contractor); and
- d) The Principal Contractor's (and his /her contractor) health & safety plan.

To serve to ensure that the Principal Contractor (and his /her contractor) is fully aware of what is expected from him/her with regard to the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) and the Regulations made there-under including the applicable safety

standards, and in particular in terms of Section 6,7 and 8 of the construction regulation (2014).

To inform the Principal Contractor that the Occupational Health and Safety Act, 1993 (Act 85 of 1993) in its entirety shall apply to the contract to which this specification document applies. The Construction Regulations promulgated on 07 February 2014.

**4. DEFINITIONS - The most important definitions in the Act and Regulations pertaining to this specification document are hereby extracted.**

**“Purpose of the Act”** – To provide for the health and safety of persons at work and the health and safety of persons in connection with the use of plant and machinery; the protection of persons other than persons at work against hazards to health and safety arising out of or in connection with the activities of persons at work; to establish an advisory council for occupational health and safety; and to provide for matters connected therewith.

**“Health & Safety Specification”** – means a document that includes information required under the construction regulation and obtained from the clients & designers during the early planning & design stage for a specific project on a specific site for use by the contractors when preparing their tenders or bids to clients.

**“Health & Safety Plan”** – means a document which is site specific and includes all identified hazards, safe work procedures to mitigate, reduce & control the hazards identified in a project.;

**“Agent”** – means any person who acts as a representative for a client;

**“Client”** – means any person for whom construction work is performed;

**“ Construction Health & Safety Agent (SACPCMP)”** – The person or entity appointed by the client through the Agent and who has a full authority and obligation to act on the clients behalf in terms of the construction regulations;

**“Construction Work”** is defined as any work in connection with –

- (a) the erection, maintenance, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure;
- (b) the installation, erection, dismantling or maintenance of a fixed plant where such work includes the risk of a person falling;
- (c) the construction, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, runway, sewer or water reticulation system or any similar civil engineering structure; or
- (d) the moving of earth, clearing of land, the making of an excavation, piling, or any similar type of work;

**“Contractor”** – means an employer, as defined in Section 1 of the Act, who performs construction work and includes Principal Contractors;

**“Contract Amount”** Financial value of the contract at the time of the award of the contract, exclusive of all allowance and any value added tax or sales tax which the law requires the employer to pay to the contractor.

**“Practical Completion Certificates”** A certificates issued in terms of a contract by the employer, signifying that the whole of the construction works have reached a state of readiness for occupation or use for the purposes intended, although some minor work may be outstanding.

**“Accident”** – means unplanned occurrence that happens due to the unsafe condition and may cause injury to a person, damage to the property, material, plant, equipment and the environment;

**“Hazard”** – means anything including work activities and practices with the potential to cause harm;

**“Risk”** – means the likelihood that harm will occur and the subsequent consequences.

**“Risk assessment”** – means a process to determine any risk associated with any hazard at a construction site in order to identify the steps needed to be taken to mitigate, reduce or control such hazards.

**Health and Safety File”** – means a file, or other record in permanent form, containing the information required a contemplated in the regulations;

## **5. OCCUPATIONAL HEALTH & SAFETY MANAGEMENT**

### **5.1 Structure and Organization of OH&S Responsibilities**

#### **5.1.1. Overall Supervision and Responsibility for OH&S**

- a) The Client and/or its Agent on its behalf to ensure that the Principal Contractor, appointed in terms of Construction Regulation 4(1)(c), implements and maintains the agreed and approved H&S Plan. Failure on the part of the Client or Agent to comply with this requirement will not relieve the Principal Contractor from any one or more of his/her duties under the Act and Regulations.
- b) The Chief Executive Officer of the Principal Contractor in terms of Section 16 (1) of the Act to ensure that the Employer (as defined in the Act) complies with the Act. The pro forma Legal Compliance Audit may be used for this purpose by the Principal Contractor or his/her appointed contractor.
- c) All OH&S Act (85 /1993), Section 16 (2) appointee/s as detailed in his/her/their respective appointment forms to regularly, in writing, report to their principals on matters of health and safety per routine and ad hoc inspections and on any deviations as soon as observed, regardless of whether the observation was made during any routine or ad hoc inspection and to ensure that the reports are made available to the principal Contractor to become part of site records (Health & Safety File).
- d) The Construction Supervisor and Assistant Construction Supervisor/s appointed in terms of Construction Regulation 6 to regularly, in writing, report to their principals on matters of health and safety per routine and ad hoc inspections and on any

deviations as soon as observed, regardless of whether the observation was made during any routine or ad hoc inspection and to ensure that the reports are made available to the principal Contractor to become part of site records (Health & Safety File).

- e) All Health and Safety Representatives (SHE-Reps) shall act and report as per Section 18 of the Act.

#### 5.12 Required appointments as per the Construction Regulations:-

| Item | Regulation | Appointment  | Responsible Person   |
|------|------------|--|----------------------|
| 1.   | 3.         | Application Construction work permit                     | Client               |
| 2.   | 5(1)(k)    | Principal contractor for each phase or project           | Client               |
| 3.   | 5(6)       | Construction Health & Safety Agent                       | Client               |
| 4.   | 7.(1)(c)   | Contractor   | Principal Contractor |
| 5.   | 7(3)       | Contractor   | Contractor           |
| 6.   | 8(1)       | Construction manager                                     | Contractor           |
| 7.   | 8(2)       | Assistance Construction manager                          | Contractor           |
| 8.   | 6(1)       | Construction supervisor                                  | Contractor           |
| 9.   | 6(2)       | Construction supervisor sub-ordinates                    | Contractor           |
| 10.  | 8(5)       | Construction Safety Officer                              | Contractor           |
| 11.  | 8(8)       | Responsible employee                                     |                      |
| 12.  | 9(1)       | Person to carry out risk assessment                      | Contractor           |
| 13.  | 10(1)      | Fall protection planner                                  | Contractor           |
| 14.  | 12(1)      | Temporal work designer                                   |                      |
| 15.  | 12(2)      | Supervisor of temporal work operation                    |                      |
| 16.  | 13(1)      | Excavation supervisor                                    | Contractor           |
| 17.  | 13(2)(k)   | Competent person in the use of explosive for excavations | Contractor           |
| 18.  | 14(11)     | Explosives expert  | Contractor           |
| 19.  | 14(1)      | Supervisor demolition work                               | Contractor           |
| 20.  | 14(2)      | Scaffold supervisor                                      | Contractor           |
| 21.  | 16(1)      | Suspended platform supervisor                            | Contractor           |
| 22.  | 18(1)a     | Rope access  | Contractor           |
| 23.  | 19(8)(a)   | Material hoist inspector                                 | Contractor           |
| 24.  | 20(1)      | Bulk mixing plant supervisor                             | Contractor           |

|     |          |  |            |
|-----|----------|--|------------|
| 25. | 21(2)    | Explosive actuated fastening device inspector                                      | Contractor |
| 26. | 21(2)(g) | Explosive actuated fastening device cartridge, nails and studs: issuer & collector | Contractor |
| 27. | 23 (1)   | Operator : construction vehicle and mobile plant                                   | Contractor |
| 28. | 28 (a)   | Stacking and storage supervisor  | Contractor |
| 29. | 29 (h)   | Fire equipment inspector   | Contractor |

## 5.2 **Communication, Participation & Consultation**

5.2.1 Occupational Health & Safety matters/issues shall be communicated between the Employer, the Principal Contractor, the other Contractors, the Designer and other concerned parties shall be through the H&S Committee or other means determined by the client.

5.2.2 In addition to the above, communication may be directly to the Client or his appointed Agent, verbally or in writing, as and when the need arises.

5.2.3 Consultation with the workforce on OH&S matters will be through their Supervisors and H&S Representatives ('SHE – Reps')

5.2.4 The Principal Contractor will be responsible for the dissemination of all relevant OH&S information to the other Contractors e.g. design changes agreed with the Client and/or its Agent on its behalf and the Designer, instructions by the Client and/or his/her agent, exchange of information between Contractors, the reporting of hazardous/dangerous conditions/situations etc.

## 6. **INTERPRETATION**

- a) The Occupational Health and Safety Act and all its Regulations, with the exception of the Construction Regulations, distinguish between the roles, responsibilities and functions of employers and employees respectively. It views consultants and contractors as employees of the "owner" of a construction or operational project, the "owner" being regarded as the employer.



- b) (The position taken by the Construction Regulations is that the “owner”, in terms of its instructions, operates (has to operate) in the role of client as per relevant definition. The contractors working for the “client” are seen to be in two categories, i.e. the Principal Contractor and Contractors.
- c) The Principal Contractor has to take full responsibility for the health and safety on the site of the relevant project / contract. This includes monitoring health and safety conditions and overseeing administrative measures required by the Construction Regulations from all contractors on the project site.

## **7. RESPONSIBILITIES**

### **7.1 Client**

- a) The Client or his appointed Agent on his behalf will appoint each Principal Contractor for this project or phase/section of the project in writing for assuming the role of Principal Contractor as intended by the Construction Regulations.
- b) The Client or his appointed Agent on his behalf shall discuss and negotiate with the Principal Contractor the contents of the health and safety plan of the both Principal Contractor and Contractor for approval.
- c) The Client or his appointed Agent on his behalf will take reasonable steps to ensure that the health and safety plan of both the Principal Contractor and Contractor is implemented and maintained. The steps taken will include periodic audits at intervals of at least once every month.
- d) The Client or his appointed Agent on his behalf, will prevent the Principal Contractor and/or the Contractor from commencing or continuing with construction work should the Principal Contractor and/or the Contractor at any stage in the execution of the works be found to:
  - have failed to have complied with any of the administrative measures required by the Construction Regulations in preparation for the construction project or any physical preparations necessary in terms of the Act;

- have failed to implement or maintain their health and safety plan;
- have executed construction work which is not in accordance with their health and safety plan; or
- Act in any way which may pose a threat to the health and safety of any person(s) present on the site of the works or in its vicinity, irrespective of him/them being employed or legitimately on the site of the works or in its vicinity.

## 7.2 **Principal Contractor**

- a) The Principal Contractor shall accept the appointment under the terms and Conditions of Contract. The Principal Contractor shall sign and agree to those terms and conditions and shall, before commencing work, notify the Department of Labour of the intended construction. Annexure 2 of this construction regulation contains a “Notification of Construction Work” form. The Principal Contractor shall submit the notification in writing prior to commencement of work and inform the Client or his Agent accordingly.
- b) The Principal Contractor shall ensure that he is fully conversant with the requirements of this Specification and all relevant health and safety legislation.
- c) The Principal Contractor will in no manner or means be absolved from the responsibility to comply with all applicable sections of the Act, the Construction Regulations or any Regulations proclaimed under the Act or which may perceivable be applicable to this contract.
- d) The Principal Contractor shall provide and demonstrate to the Client a suitable and sufficiently documented health and safety plan based on this Specification, the Act and the Construction Regulations, which shall be applied from the date of commencement of and for the duration of execution of the works. This plan shall, as appendices, include the health and safety plans of all Sub-contractors for which he has to take responsibility in terms of this contract.

- e) The Principal Contractor shall provide proof of his registration and good standing with the Compensation Fund or with a licensed compensation insurer prior to commencement with the works.
- f) The Potential Principal Contractor shall, in submitting his tender, demonstrate that he has made provision for the cost of compliance with the specified health and safety requirements, the Act and Construction Regulations. (Note: This shall have to be contained in the conditions of tender upon which a tenderer's offer is based.)
- g) The Principal Contractor shall consistently demonstrate his competence and the adequacy of his resources to perform the duties imposed on the Principal Contractor in terms of this Specification, the Act and the Construction Regulations.
- h) The Principal Contractor shall ensure that a copy of his health and safety plan is available on site and is presented upon request to the Client, an Inspector, Employee or Sub-contractor.
- i) The Principal Contractor shall ensure that a health and safety file, which shall include all documentation required in terms of the provisions of this Specification, the Act and the Construction Regulations, is opened and kept on site and made available to the Client or Inspector upon request. Upon completion of the works, the Principal Contractor shall hand over a consolidated health and safety file to the Client.
- j) The Principal Contractor shall, throughout execution of the contract, ensure that all conditions imposed on his Sub-contractors in terms of the Act and the Construction Regulations are complied with as if they were the Principal Contractor.
- k) The Principal Contractor shall from time to time evaluate the relevance of the Health and Safety Plan and revise the same as required, following which revised plan shall be submitted to the Client and/or his/her Agent for approval.

### 7.3 Contractor

The contractor must demonstrate to the Principal Contractor that he has the Necessary competencies and resources to perform the construction work safely.

### 7.4 Responsibilities of **Construction Health & Safety Agent (SACPCMP)**

The construction Health & Safety Agent act as a link between the client, Principal Contractor and the project team members with respect to health & Safety, They are Required to ensure that the client carry out its H&S responsibilities in terms of Legislation as well as to co-ordinate and ensure good H&S practices are maintained Throughout the duration of the project. In many cases this role starts from project Initiation to project close-out.

- a) H&S competence: In the event that the client is unable to satisfy the requirements of the Construction Regulations for whatever reasons, the construction H&S agent may be appointed to perform these functions on behalf of the client. Given the need to appoint a registered construction H&S agent that is competent and adequately resourced with respect to H&S matters.
- b) H&S goals: It is important that the construction H&S agents demonstrate clearly to clients how they are going to contribute to the achievement of any client H&S goals and objectives. They should also set their own H&S goals.
- c) H&S responsibilities: Prior to accepting the H&S agent appointment from clients, H&S agents need to ensure that they brief clients fully on the client's particular responsibilities in terms of the OH&SA of 1993 and Construction Regulations as amended from time to time. In the absence of acceptance by clients of these responsibilities, H&S agents will not be able to adequately meet their own H&S responsibilities and duties.
- d) H&S information: H&S agents must provide the designer or design team with all H&S information to enable them to conduct a design HIRA to identify the significant hazards that need to be included in the H&S specification. This information may be gathered from multiple sources such as, for example, discussion with the client, previous

historical use of the site or facility, previous surveys and investigations and past H&S files.

## **8. SCOPE OF WORK**

These specifications are applicable to the specific scope of work pertaining to the above-mentioned project as detailed in the tender documents, this amongst all includes for example:

- a) Construction, erecting, alteration, renovations, refurbishment, repairs, demolishing or dismantling of building and structures.
  - Site clearance
  - Site hoarding, demarcation and demolition works
  - excavations, filling, compaction, evening surface
  - Piling (by drilling, excavating,)
  - Temporal works
- b) Construction, erecting, alteration, renovations, refurbishment, repairs, demolishing or dismantling of any bridge, dam, canal, road, railway, runaway, sewer, or water reticulation system or any civil engineering structure or type of work
- c) Construction of a new two storied Administration building.
  - Preparation of site by leveling, compaction etc.
  - Excavations for parking areas/services

## **9. PREPARING A HEALTH & SAFETY PLAN**

- (a) The level of detail required for an H&S plan will depend on how complex the workplace is (in particular, the number of contractors at the workplace at any one time) and the risks involved in the work. The plan must be easily accessible in a construction site and it must be clearly understood by management, supervisors & workers on construction site.

(b) The plan must be implemented, maintained and kept up to date during the construction of the project.

(c) The principal contractor should prepare a H&S plan that includes

- project information;
- client requirements for H&S management on the project;  
Environmental restrictions and existing on-site risks arrangements, imposed by others or developed by the principal contractor, to control significant site H&S risks; H&S file & project H&S review.

(d) The H&S plan should include the following information:

- details of the client, that is the person commissioning the construction work, for example their name, representative and contact details;  
details of the principal contractor;
- details of the construction project, for example address of the workplace, anticipated start and end date and a brief description of the type of construction work that the H&S plan will cover;
- details on how subcontractors will be managed and monitored, including how the principal contractor intends to implement and ensure compliance with the H&S plan such as checking on the performance of subcontractors and how non-compliance will be handled; and
- details on how the risks associated with falls, falling objects, moving plant, electrical work and all high risk construction work that will take place on a construction project will be managed.

(e) The H&S plan should also include information on:

- the provision and maintenance of a hazardous chemicals register, safety data sheets and hazardous chemicals storage;
- the safe use and storage of plant;
- the development of a construction project traffic management plan;

- obtaining and providing essential services information – electrical, gas, telecom, water and similar services;
- workplace security and public safety; and
- ensuring workers have appropriate licences and training to undertake the construction work.

(f) The H&S plan must contain:

- a general description of the type of work activities involved in the project and not just a description of the facility to be constructed;
- the project program or schedule details, including start and finish dates, showing principal activities;
- details of client, design team, principal contractor, subcontractors, and major suppliers; and
- extent and location of relevant existing records, surveys, site investigation and geotechnical reports, 'as-built' plans, H&S files.

## **10. HEALTH AND SAFETY FILE**

- a) The H&S file is a document prepared by the principal contractor containing important project H&S information for use by the owner of the completed structure after construction has been completed.
- b) The principal contractor is responsible for producing an H&S file. It contains important project H&S information for use by the owner of the completed structure after construction has been completed. It is essential that the process of compiling the file commences as early as possible to ensure sufficient time to gather the required information.
- c) The Principal Contractor must, in terms of Construction Regulation 7(7), keep a Health & Safety File on site at all times that must include all documentation required in terms of the Act and Regulations and must also include a list of all Contractors on site that are accountable to the Principal Contractor and the agreements between the parties and details of work being done. A more detailed list of documents and other legal requirements that must be kept in the Health & Safety File.

- d) The contractor must ensure that the client's format and layout of the H&S file is adhered to. The contractor must identify the responsible person that will prepare the H&S file and who will be responsible for the drafting of as-built drawings. The contractor must establish procedures:
- e) The Health and Safety File will remain the property of the Client and/or its Agent on its behalf throughout the period of the project and shall be consolidated and handed over to the Client and/or its Agent on its behalf at the time of completion of the project.

## **11. OH&S GOALS AND OBJECTIVES AND ARRANGEMENTS FOR MONITORING AND REVIEWING OH&S PERFORMANCE**

The Principal Contractor is required to maintain an acceptable disabling incident frequency rate (DIFR) and report on this to the Client and/or its Agent on its behalf on a monthly basis.

### **11.1 IDENTIFICATION OF HAZARDS AND DEVELOPMENT OF RISK ASSESSMENTS, STANDARD WORKING PROCEDURES (SWP) AND METHOD STATEMENTS**

The Principal Contractor is required to develop Risk Assessments, Standard Working Procedures (SWP) and Method Statements for each activity executed in the contract or project.

The identification of hazards is over and above the hazards identification programme and those hazards identified during the drafting of the Health and Safety Plan.

#### **11.1.1 Monthly Audit by Client and/or its Agent.**

The Client and/or its Agent on its behalf will be conducting Periodic Audits at times agreed with the Principal Contractor Audit to comply with Construction Regulation 4(1)(d) to ensure that the principal Contractor has implemented, is adhering to and is maintaining the agreed and approved OH&S Plan.



- a) A representative of the Principal Contractor and the relevant Health and Safety Representative(s) (SHE-Reps) must accompany the Client and/or its Agent on its behalf on all Audits and Inspections and may conduct their own audit/inspection at the same time. Each party will, however, take responsibility for the results of his/her own audit/inspection results. The Client and/or its Agent on its behalf may require to be handed a copy of the minutes of the previous Health and Safety Committee meeting reflecting possible recommendations made by that committee to the Employer for reference purposes.

### **11.1.2 Health & Safety incident/accident reporting & investigations**

- a) The Principal Contractor shall report all incidents where an employee is injured on duty to the extent that he/she:
  - i. dies
  - ii. becomes unconscious
  - iii. loses a limb or part of a limb
  - iv. is injured or becomes ill to such a degree that he/she is likely either to die or to suffer a permanent physical defect or likely to be unable for a period of at least 14 days either to work or continue with the activity for which he/she was usually employed

OR where:

- i. a major incident occurred
- ii. the health or safety of any person was endangered
- iii. where a dangerous substance was spilled
- iv. the uncontrolled release of any substance under pressure took place
- v. machinery or any part of machinery fractured or failed resulting in flying, falling or uncontrolled moving objects
- vi. Machinery ran out of control, to the Provincial Director of the Department of Labour within seven days and at the same time to the Client and/or its Agent on its behalf.

- b) The Principal Contractor is required to provide the Client and/or its Agent on its behalf with copies of all statutory reports required in terms of the Act and the Regulations.
- c) The Principal Contractor is required to provide the Client and/or its Agent on its behalf with a monthly “SHE Risk Management Report”.
- d) The Principal Contractor is required to provide a.s.a.p. the Client and/or its Agent on its behalf with copies of all internal and external accident/incident investigation reports.

The Principal Contractor is responsible to oversee the investigation of all accidents/incidents where employees and non-employees were injured to the extent that he/she/they had to receive first aid or be referred for medical treatment by a doctor, hospital or clinic. (General Administrative Regulation 9)

- (e) The results of the investigation to be entered into the Accident/Incident Register listed above. (General Administrative Regulation 9)
- (f) The Principal Contractor is responsible for the investigation of all non-injury incidents as described in Section 24 (1) (b) & (c) of the Act and keeping a record of the results of such investigations including the steps taken to prevent similar incidents in future.
- (g) The Principal Contractor is responsible for the investigation of all accidents relating to the construction site and keeping a record of the results of such investigations including the steps taken to prevent similar accidents in future.
- (h) Notwithstanding the requirements of Section 24 of the Act, ALL incidents shall be investigated and reported on in writing, irrespective of whether such incident gave rise to injury or damage.
  - Determine the underlying H&S deficiencies and other contributory factors
  - Identification of corrective/preventative actions and continual improvement

- Communicating the outcome/results and documenting the events of the investigation.

(i) **Reporting Of Near-Misses**

- Department of Public Works views the reporting of near misses as a critical component in creating a positive health and safety awareness culture on site.
- Department of Public Works retains the right to enforce the reporting of near misses within 24 hours of occurrence.

## **12. Review**

The Principal Contractor is to review the Hazard Identification, Risk Assessments and Standard Work Processes at each Production Planning and Progress Report meeting as the construction work develops and progresses and each time changes are made to the designs, plans and construction methods and processes.

The Principal Contractor must provide the Client and/or its Agent on its behalf, other Contractors and all other concerned parties with copies of any changes, alterations or amendments as contemplated in the above paragraph.

### **12.1 Site Rules and other Restrictions**

#### **a) Site OH&S Rules**

The Principal Contractor must develop a set of site-specific OH&S rules that will be applied to regulate the Health and Safety Plan and associated aspects of the construction. When required for a site by law, visitors and non-employees upon entering the site shall be issued with the proper Personal Protective Equipment (PPE) as and when necessary.

## ***b) Security Arrangements***

The Principal Contractor must establish site access rules and implement and maintain these throughout the construction period. Access control must include the rule that non-employees shall at all times be provided with fulltime supervision while on site. The Principal Contractor must develop a set of Security rules and procedures and maintain these throughout the construction period.

If not already tasked to the H&S Officer appointed in terms of Construction Regulation, the Principal Contractor must appoint a competent person who must develop contingency plans for any emergency that may arise on site as indicated by the risk assessments.

### **12.1.1 Appointment of Health & Safety Representatives**

#### ***a) H&S Representatives('SHE – Reps')***

Where the Principal Contractor employs more than 20 persons (including the employees of other Contractors (sub-contractors) he has to appoint one H&S Representatives for every 50 employees or part thereof. (Section 17 of the Act and General Administrative Regulation 6. & 7.)

H&S Representatives must be appointed in writing and the designation shall be in accordance with the Collective Agreement as concluded between the parties as is required in terms of General Administration Regulation 6.

### **12.1.2 Duties and Functions of the H&S Representatives**

- The Principal Contractor must ensure that the designated H&S Representatives conduct at least a weekly inspection of their respective areas of responsibility using a checklist developed by a Principal Contractor.
- The report must be consolidated and submitted to the Health & Safety Committee.
- H&S Representatives must form part of the incident/accident investigating team.

### **12.1.3 Establishment of H&S Committee(s)**

- The Principal Contractor must establish H&S Committees consisting of designated H&S Representatives together with a number of Employers Representatives appointed as per Section 19(3) that are not allowed to exceed the number of H&S Representatives on the committee.
- The persons nominated by the employer on a H&S Committee must be designated in writing for such period as may be determined by him. The H&S Committee shall co-opt advisory (temporary) members and determine the procedures of the meetings including the chairmanship.
- The H&S Committee must meet minimum monthly and consider, at least, an agreed Agenda for the first meeting. Thereafter the H&S Committee shall determine its own procedures.

### **12.1.4 Training & Awareness**

The contents and syllabi of all training required by the Act and Regulations including any other related or relevant training as required must be included in the Principal Contractor's Health and Safety Plan and Health and Safety File.

#### **a) *Training & Induction***

All employees performing work or task on site that potentially impact on H&S must be competent & have the necessary appropriate education, training & experience.

All the training must be closely aligned with the risk profile of the project; procedures must be put in place to ensure that all workers are aware of the consequences of their work activities & benefits of improved H&S performance.

All employees of the Principal and other Contractors must be in possession of proof of General Induction training

#### **b) *Site Specific Induction Training***

All employees of the Principal and other Contractors must be in possession of Site Specific Occupational Health and Safety Induction or other qualifying training.

**c) Other Training**

All operators, drivers and users of construction vehicles, mobile plant and other equipment must be in possession of valid proof of training.

**13. PROJECT/SITE SPECIFIC REQUIREMENTS**

The following is a list of specific activities and considerations that have been identified for the project and site and for which Risk Assessments, Standard Working Procedures (SWP), management and control measures and Method Statements (where necessary) have to be developed by the Principal Contractor:

- a) Clearing & grubbing the area/site
- b) Site establishment
- c) Dealing with existing structures
- d) Location of existing services
- e) Boundary & Access control/Public liability exposures
- f) Protection against heat exhaustion, dehydration, wet & cold conditions
- g) Dealing with HIV & aids other related diseases
- h) Use of portable electrical & explosive tools
- i) Any Excavation work
- j) Any welding work
- k) Loading & offloading of trucks
- l) Driving & operations of Construction vehicles & mobile plant
- m) Temporal works and
- n) Construction work as defined in the construction regulation 2014

**14. OUTLINED DATA, REFERENCES AND INFORMATION ON CERTAIN AND/OR SPECIFIC OBLIGATORY REQUIREMENTS TO ENSURE COMPLIANCE**

**Administrative & Legal Requirements**

| <b>OHS Act Section/<br/>Regulation</b>        | <b>Subject</b>                                     | <b>Requirements</b>  |
|---|--|--|
| Construction. Regulation                      | <b>Notice of carrying out Construction work</b>    | <ul style="list-style-type: none"> <li>• Department of Labour notified</li> <li>• Copy of Notice available on Site</li> </ul>  |
| General Admin. Regulation 4                   | <b>Copy of OH&amp;S Act (Act 85 of 1993)</b>       | <ul style="list-style-type: none"> <li>• Updated copy of Act &amp; Regulations on site.</li> <li>• Readily available for perusal by employees.</li> </ul>  |
| COID Act Section 80                           | <b>Registration with Compensation Insurer.</b>     | <ul style="list-style-type: none"> <li>• Written proof of registration/Letter of good standing available on Site</li> </ul>  |
| Construction. Regulation 4 & 5(1)             | <b>H&amp;S Specification &amp; Programme</b>       | <ul style="list-style-type: none"> <li>• H&amp;S Spec received from Client and/or its Agent on its behalf</li> <li>• OH&amp;S programme developed &amp; Updated regularly</li> </ul>   |
| Section 8(2)(d)<br>Construction. Regulation 7 | <b>Hazard Identification &amp; Risk Assessment</b> | <ul style="list-style-type: none"> <li>• Hazard Identification carried out/Recorded</li> <li>• Risk Assessment and – Plan drawn up/Updated</li> <li>• RA Plan available on Site</li> <li>• Employees/Sub-Contractors informed/trained</li> </ul> |
| Section 16(2)                                 | <b>Assigned duties (Managers)</b>                  | <ul style="list-style-type: none"> <li>• Responsibility of complying with the OH&amp;S Act assigned to other person/s by CEO.</li> </ul>   |

| OHS Act Section/<br>Regulation                                 | Subject   | Requirements  |
|--|---|---|
| Construction. Regulation<br>6(1)                               | <b>Designation of Person Responsible on Site</b>          | <ul style="list-style-type: none"> <li>• Competent person appointed in writing as</li> <li>• Construction Supervisor with job description</li> </ul>  |
| Construction. Regulation<br>6(2)                               | <b>Designation of Assistant for above</b>                 | <ul style="list-style-type: none"> <li>• Competent person appointed in writing as</li> <li>• Assistant Construction Supervisor with job description</li> </ul>  |
| Section 17 & 18<br>General Administrative<br>Regulations 6 & 7 | <b>Designation of Health &amp; Safety Representatives</b> | <ul style="list-style-type: none"> <li>• More than 20 employees - one H&amp;S Representative, one additional H&amp;S Rep. for each 50 employees or part thereof.</li> <li>• Designation in writing, period and area of responsibility specified in terms of GAR 6 &amp; 7</li> <li>• Meaningful H&amp;S Rep. reports.</li> <li>• Reports actioned by Management.</li> </ul> |
| Section 19 & 20<br>General Administrative<br>Regulations 5     | <b>Health &amp; Safety Committee/s</b>                    | <ul style="list-style-type: none"> <li>• H&amp;S Committee/s established.</li> <li>• All H&amp;S Reps shall be members of H&amp;S Committees</li> <li>• Additional members are appointed in writing.</li> <li>• Meetings held monthly, Minutes kept.</li> <li>• Actioned by Management.</li> </ul>  |
| Section 37(1) & (2)  | <b>Agreement with Mandatories/<br/>(Sub-)Contractors</b>  | <ul style="list-style-type: none"> <li>• Written agreement with (Sub-)Contractors</li> <li>• List of SubContractors displayed.</li> <li>• Proof of Registration with Compensation Insurer/Letter of Good Standing</li> <li>• Construction Supervisor designated</li> </ul>  |



| OHS Act Section/<br>Regulation  | Subject   | Requirements  |
|---|---|---|
|   |   | <ul style="list-style-type: none"> <li>• Written arrangements re.</li> <li>• H&amp;S Reps &amp; H&amp;S Committee</li> <li>• Written arrangements re. First Aid</li> </ul>  |
| Section 24 &<br>General Admin. Regulation<br>8<br>COID Act Sect.38, 39 & 41 | <b>Reporting of Incidents<br/>(Dept. of Labour)</b> | <ul style="list-style-type: none"> <li>• Incident Reporting Procedure displayed.</li> <li>• All incidents in terms of Sect. 24 reported to the Provincial Director, Department of Labour, within 3 days. (Annexure 1)(WCL 1 or 2) and to the Client and/or its Agent on its behalf</li> <li>• Cases of Occupational Disease Reported</li> <li>• Copies of Reports available on Site</li> <li>• Record of First Aid injuries kept</li> </ul> |
| General Admin. Regulation<br>9  | <b>Investigation and Recording of<br/>Incidents</b> | <ul style="list-style-type: none"> <li>• All injuries which resulted in the person receiving medical treatment other than first aid, recorded and investigated by investigator designated in writing.</li> <li>• Copies of Reports (Annexure 1) available on Site</li> <li>• Tabled at H&amp;S Committee meeting</li> <li>• Action taken by Site Management.</li> </ul>   |
| Construction. Regulation 8  | <b>Fall Prevention &amp; Protection</b>             | <ul style="list-style-type: none"> <li>• Competent person appointed to draw up the Fall Protection Plan</li> <li>• Proof of appointees competence available on Site</li> <li>• Risk Assessment carried out for work at heights</li> </ul>   |

| OHS Act Section/<br>Regulation                                      | Subject  | Requirements  |
|---|--|---|
|   |  | <ul style="list-style-type: none"> <li>• Fall Protection Plan drawn up/updated</li> <li>• Available on Site</li> </ul>  |
| Construction. Regulation<br>Driven Machinery<br>Regulations 18 & 19 | <b>Cranes &amp; Lifting Machines Equipment</b>                                       | <ul style="list-style-type: none"> <li>• Competent person appointed in writing to inspect Cranes, Lifting Machines &amp; Equipment</li> <li>• Written Proof of Competence of above appointee available on Site.</li> <li>• Cranes &amp; Lifting tackle identified/numbered</li> <li>• Register kept for Lifting Tackle</li> <li>• Log Book kept for each individual Crane</li> <li>• Inspection: - All cranes - <b>daily by operator</b> <ul style="list-style-type: none"> <li>- Tower Crane/s - <b>after erection/6monthly</b></li> <li>- Other cranes - <b>annually by comp. person</b></li> </ul> </li> <li>• - Lifting tackle(slings/ropes/chain slings etc.) - daily or before every new application</li> </ul> |
| General Safety Regulation<br>8(1)(a)                                | <b>Designation of Stacking &amp; Storage Supervisor.</b>                             | <ul style="list-style-type: none"> <li>• Competent Person/s with specific knowledge and experience designated to supervise all Stacking &amp; Storage</li> <li>• Written Proof of Competence of above appointee available on Site</li> </ul>  |
| Construction. Regulation<br>Environmental Regulation<br>9           | <b>Designation of a Person to Co-ordinate Emergency Planning And Fire Protection</b> | <ul style="list-style-type: none"> <li>• Person/s with specific knowledge and experience designated to co-ordinate emergency contingency planning and execution and fire prevention measures</li> <li>• Emergency Evacuation Plan developed:</li> </ul>   |

| OHS Act Section/<br>Regulation | Subject                                | Requirements  |
|--------------------------------|--|---|
|                                |  | <ul style="list-style-type: none"> <li>• Drilled/Practiced</li> <li>• Plan &amp; Records of Drills/Practices available on Site</li> <li>• Fire Risk Assessment carried out</li> <li>• All Fire Extinguishing Equipment identified and on <b>register</b>.</li> <li>• Inspected weekly. Inspection Register kept</li> <li>• Serviced annually</li> </ul>   |
| General Safety Regulation<br>3 | <b>First Aid</b>                       | <ul style="list-style-type: none"> <li>• Every workplace provided with sufficient number of First Aid boxes. (Required where 5 persons or more are employed)</li> <li>• First Aid freely available</li> <li>• Equipment as per the list in the OH&amp;S Act.</li> <li>• One qualified First Aider appointed for every 50 employees. (Required where more than 10 persons are employed)</li> <li>• List of First Aid Officials and Certificates</li> <li>• Name of person/s in charge of First Aid box/es displayed.</li> <li>• Location of First Aid box/es clearly indicated.</li> <li>• Signs instructing employees to report all</li> <li>• Injuries/illness including first aid injuries</li> </ul> |
| General Safety Regulation<br>2 | <b>Personal Safety Equipment (PSE)</b> | <ul style="list-style-type: none"> <li>• PSE Risk Assessment carried out</li> <li>• Items of PSE prescribed/use enforced</li> </ul>   |

| OHS Act Section/<br>Regulation   | Subject  | Requirements  |
|----------------------------------|--|---|
|                                  |  | <ul style="list-style-type: none"> <li>• Records of Issue kept</li> <li>• Undertaking by Employee to use/wear PSE</li> <li>• PSE remain property of Employer, not to be removed from premises GSR 2(4)</li> </ul>   |
| General Safety Regulation<br>9   | <b>Inspection &amp; Use of Welding/Flame Cutting Equipment</b> | <ul style="list-style-type: none"> <li>• Competent Person/s with specific knowledge and experience designated to Inspect Electric Arc, Gas Welding and Flame Cutting Equipment</li> <li>• Written Proof of Competence of above appointee available on Site</li> <li>• All new vessels checked for leaks, leaking vessels NOT taken into stock but returned to supplier immediately</li> <li>• Equipment identified/numbered and entered into a register</li> <li>• Equipment inspected weekly. Inspection Register kept</li> <li>• Separate, purpose made storage available for full and empty vessels</li> </ul> |
| General Safety Regulation<br>13A | <b>Inspection of Ladders</b>                                   | <ul style="list-style-type: none"> <li>• Competent person appointed in writing to inspect Ladders</li> <li>• Ladders inspected at arrival on site and weekly thereafter. Inspections register kept</li> <li>• Application of the types of ladders (wooden, aluminium etc.) regulated by training and inspections and noted in register</li> </ul>   |
| General Safety regulation<br>13B | <b>Ramps</b>   | <ul style="list-style-type: none"> <li>• Competent person appointed in writing to supervise the erection &amp; inspection of Ramps. Inspection register kept.</li> <li>• Daily inspected and noted in register</li> </ul>   |



## **15. THE PRINCIPAL CONTRACTOR'S GENERAL DUTIES**

- The Principal Contractor shall at all times ensure his status of an “employer” as referred to in the Act, and will abide by his/her responsibilities, duties and functions as per the requirements of the Act and Regulations with specific reference to Section 8 of the Act.
- The Principal Contractor shall keep, and on demand make available, a copy of the Act on site at all times and in addition to that he/she will introduce and maintain a file titled “Health and Safety File”, or other record in permanent form, which shall contain all relevant aspects and information as contemplated in the Construction Regulations. He/she will make this file available to the client or his representative whenever necessary or on request to an interested party.
- The project under control of the Principal Contractor shall be subject to periodic health and safety audits that will be conducted by the client at intervals agreed upon between the Principal Contractor and the client, provided such intervals will not exceed periods of one month.
- The Principal Contractor is to ensure that he/she and all persons under his control on the construction site shall adhere to the above specifications.
- The Principal Contractor should note that he/she shall be held liable for any anomalies including costs and resulting deficiencies due to delays caused by non-conformance and/or non-compliance to the above Health and Safety Specifications and the Health and Safety Plan based on these specifications.

## **16. THE PRINCIPAL CONTRACTOR'S SPECIFIC DUTIES**

The Principal Contractor's specific duties in terms of these specifications are detailed in the Construction Regulations as published under government notice 07 August 2014, stipulated in Section 7.

## **17. THE PRINCIPAL CONTRACTOR'S SPECIFIC RESPONSIBILITIES WITH REGARD TO HAZARDOUS ACTIVITIES**

The following examples of activities are identifiable as hazardous in terms of the Construction Regulations. The contractor shall execute the activities in accordance with the following Construction Regulations and other applicable regulations of the Act:

- Fall protection
- Structures
- Excavation work
- Demolition work
- Scaffolding
- Construction vehicles & mobile plant.
- Water environments
- Housekeeping on construction sites
- Fire precautions on construction sites.

This list must not be taken to be exclusive or exhaustive! All of the above requirements will be read in conjunction with the relevant regulations and health and safety standards as required by the Act. All documents and records required by the Construction Regulations will be kept in the Health and Safety File and will be made available at any time when required by the client or his representative, or on request to an interested party.

## **18. GENERAL NOTES TO THE PRINCIPAL CONTRACTOR**

### **Legal Framework**

Part of legal obligations

The more important Acts and relevant subordinate/secondary legislation as well as other (inter alia Local Government) legislation that also apply to the State as well as to State owned buildings and premises: -

- a. The latest issue of SABS 0142: "Code of Practice for the Wiring of Premises"
- b. The Local Government Ordinance 1939 (Ordinance 17 of 1939) as amended and the municipal by-laws and any special requirements of the local supply authority
- c. The Fire Brigade Services Act 1987, Act 99 of 1987 as amended

- d. The National Building Regulations and Building Standards Act 1977 (Act 103 of 1977) as amended and relevant proclaimed Regulations (SABS 0400)
- e. The Post Office Act 1958 (Act 44 of 1958) as amended
- f. The Electricity Act 1984, Act 41 of 1984
- g. The Regulations of Local Gas Board(s), including Publications of the SABS Standards and Codes of Practice, with specific reference to GNR 17468 dated 4<sup>th</sup> October 1997
- h. Legislation pertaining to water usage and the environment
- i. Legislation governing the use of equipment, which may emit radiation (e.g. X-Rays etc.)
- j. Common Law

## **19. HOUSE KEEPING**

Good housekeeping will be maintained at all times as per Construction Regulation No. 25. Poor housekeeping contributes to three major problems, namely, costly or increased accidents, fire or fire hazards and reduction in production. Good housekeeping will enhance production time.

In promotion of environmental control all waste, rubble, scrap etc, will be disposed of at a registered dump site and records will be maintained. Where it is found to be impractical to use a registered dump site or it is not available, the Principal Contractor will ensure that the matter is brought to record with the client or his representative, after which suitable, acceptable alternatives will be sought and applied.

Dross and refuse from metals, and waste matters or by-products whose nature is such that they are poisonous or capable of fermentation, putrefaction or constituting a nuisance shall be treated or disposed of by methods approved of by an inspector.

NOTE: No employer (Principal Contractor) shall require or permit any person to work at night or after hours unless there is adequate, suitable artificial lighting including support services in respect of Health and Safety.



**a) Facilities**

The site establishment plan shall make provision for:

**b) Dining room facilities**

The contractor shall make provision for adequate dining room facilities for his employees on site.

**c) Change rooms**

The contractor shall make provision for adequate change rooms for his employees on site.

**d) Ablution facilities**

The contractor shall make provision for adequate ablution facilities for his employees on site.

These facilities shall be maintained by the contractor.

**e) Smoking Areas**

Designated smoking areas shall be established by Department of Public Works.

**f) Drinking Water Facilities**

The provision of drinking water facilities shall be negotiated between the Contractor and Department of Public Works.

**g) Equipment Compliance Certificates**

Before equipment is brought on site valid certificates of compliance issued by a competent person shall be presented. The equipment includes but shall not be limited to:

- i. lifting equipment and lifting tackle
- ii. power driven machinery
- iii. electrical equipment
- iv. testing and monitoring equipment

## **h) Barricading**

All barricading shall be of the rigid type unless the use of non-rigid barricading has been approved in writing by the Department of Public Works Project Manager. The contractors' barricading standard shall be included in the Health and Safety Plan.

Where more than one contractor is working on a site, the fixed barricading shall be clearly marked with the company's name, site contact person as well as the contact number/s.

## **i) Erection of Structures for Logistic Support**

Prior to site establishment Department of Public Works shall approve the contractor's site plan.

Department of Public Works shall approve all structures erected for logistical support by the contractor. These structures include fences, workshops, tool sheds, offices, ablution facilities, etc.

## **j) Salvage Yard Management**

Depending on the site specific arrangements and procedures, Department of Public Works may provide the salvage yard and the resources to manage it.

The salvage yard management shall conform to safety, health and environmental requirements. The contractors are required to move the equipment from the place of work to the salvage yard.

## **k) Fall Arrest and Prevention Equipment**

Approved fall prevention equipment shall be used at heights of less than 2.0 metres. Above heights of 2.0 metres fall prevention equipment shall include fall arrest Equipment. Users of fall arrest equipment shall, amongst other things be trained in what an appropriate load bearing point is for connecting fall prevention equipment. Any deviation from this requirement shall be negotiated and agreed with Department of Public Works in writing.

## **l) Hazardous Chemical Substances Waste Removal**

Department of Public Works shall provide a facility to collect all hazardous chemical waste material.

The contractor shall provide adequately marked and sealable containers to transport The hazardous chemical waste from the source to the approved Department of Public Works disposal point.

## **m) Personal Protective Equipment (PPE)**

Personal protective equipment issued shall be specific to the risks associated with the work to be performed and specific to conditions on site and shall comply with South African National Standards (SANS) or similar.

## **20. LOCKOUT SYSTEMS**

A system of control shall be established in order that no unauthorized person can energize a circuit, open a valve, or activate a machine on which people are working or doing maintenance, even if equipment, plant or machinery is out of commission for any period, thus eliminating injuries and damage to people and equipment as far as is reasonably practicable.

Physical/mechanical lock-out systems shall be part of the safety system and included in training. Lockouts shall be tagged and the system tested before commencing with any work or repairs.

## **21. IMPORTANT LISTS AND RECORDS TO BE KEPT**

The following are lists of several records that are to be kept in terms of the Construction Regulations. The lists are:

- i. List of appointments
- ii. List of record keeping responsibilities
- iii. Inspection checklist

### **a) Contractor Risk Assessment Process**

The risk assessment process shall include:

- 1) an evaluation of the method of the work to be conducted
- 2) the method statement on the procedure to be followed in performing the task shall be developed
- 3) the risk assessment will also include activities like:
  - i. Transportation of passengers and goods to and from site
  - ii. Site establishment
  - iii. Physical and mental capabilities of employees
  - iv. Others as may be specified.
- 4) the hazards as listed in the paragraph – Site Specific Health and Safety Hazards
- 5) a review plan for risk assessments shall provide for:
  - i. the quarterly review of all applicable risk assessments
  - ii. the review of an assessment if there is reason to believe that the previous assessment is no longer valid, or there has been a change in a process, work methods, equipment or procedures and working conditions
  - iii. Risk assessment/s to be reviewed if the outcome of incident investigations and audits etc. requires such action.

A pre - task risk assessment shall be conducted in writing on every task and be facilitated by the team leader. All risk assessments and pre-task risk assessments shall be filed and be available on site.

### **b) Risk Profile**

All contractors shall submit a risk profile of the work to be conducted with their Health and Safety Plan.

### **c) Risk Based Inspection Program**

The inspection programme shall be risk based. The inspection plan shall form part of the Health and Safety Plan.

# IMPORTANT CONTACT DETAILS

(FOR HEALTH & SAFETY ASPECTS ONLY)

The contractor is to add all the important contact information about essentials services, support and assistance.

**SERVICE**

**NUMBER**

**CONTACT PERSON**



|          |  |  |
|----------|--|--|
| Hospital |  |  |
|          |  |  |



|           |  |  |
|-----------|--|--|
| Ambulance |  |  |
|           |  |  |



|             |  |  |
|-------------|--|--|
| Water       |  |  |
| Electricity |  |  |



|        |  |  |
|--------|--|--|
| Police |  |  |
|        |  |  |

|              |  |  |
|--------------|--|--|
| Fire Brigade |  |  |
|              |  |  |



|          |  |  |
|----------|--|--|
| Engineer |  |  |
|          |  |  |

**ADD OTHER IMPORTANT HEALTH & SAFETY CONTACT DETAILS AS MAY BE FOUND NECESSARY.**

**SECTION 37(2) AGREEMENTS  
CONCLUDED BETWEEN  
DEPARTMENT OF PUBLIC WORKS**

(Hereinafter referred to as Department of Public Works)

**AND**

.....

**(Name of contractor/supplier/Agent/)**

I, .....[  
(name)representing ..... [Insert name of  
contractor/supplier], do hereby acknowledge that .....  
[insert name of contractor/supplier] is an employer in his/her own right, with duties as prescribed in  
the Occupational Health and Safety Act No. 85 of 1993 (“the Act”), as amended, and agree to  
ensure that all work will be performed and/or machinery or plant used in accordance with the  
provisions of the Act.

I undertake that ..... [insert name of contractor/supplier]  
shall strictly adhere to, and ensure that his/her employees adhere to, the provisions of the  
Occupational Health and Safety Act, 1993 (Act 85 of 1993).

I have been provided with SHE specifications for project/service .....[insert  
brief details of project/service, for example, name, contract/project number]  
.....and will comply with the requirements set out in these.

I accept and agree that the SHE specifications constitute arrangements and procedures between  
..... [Insert name of contractor/supplier/Agent  
**Safety Manager/Safety Officer**] and Department of Public Works, which will ensure compliance  
by ..... [Insert name of contractor/supplier] with the  
provisions of the Act, as contemplated in section 37(2) of the Act.

This agreement constitutes the sole agreement between the parties, and no variation, modification,  
or waiver of any of the provisions of this agreement or consent to any departure from these shall,  
in any manner, be of any force or effect, unless confirmed in writing and signed by both parties, and  
such variation, modification, waiver, or consent shall be effective only in the specific instance and  
for the specific purpose and to the extent for which it was made or given.

This agreement is signed on behalf of the parties, each signatory to this warranting that he/she has the requisite authority to do so.

Signed this ..... day of ..... 20 ..... at

..... (Place)

(Full name)..... (Signature) .....on

behalf of ..... **(Supplier/contractor/Agent)**

**Contractor Responsible Manager** (*responsible for signing the Department of Public Works' contract on behalf of the contractor*)

Witnesses

1. ....

2. ....

Signed this ..... day of .....20.....

at ..... (Place)

(Full name)..... (Signature).....on

Behalf of **Department of Public Works.**

**(Contracts and/or Project Manager or Department of Public Works representative)**

Witnesses

1. ....

2. ....



**PROJECT:** \_\_\_\_\_  
(full name AND site address of project)  
(and full or proper description of project)

**WCS NO:** \_\_\_\_\_ (works control system number)

**SUPERVISION BY THE DEPARTMENT OF PUBLIC WORKS:**

**Mr /Ms/Me** - **CONSTRUCTION PROJECT MANAGER**  
(add full details of the project manager)  
.....  
.....

**Mr /Ms/Me** - **CONSTRUCTION MANAGER**  
(add full details )  
.....  
.....

**Mr /Ms/Me** **AGENT:**  
(full particulars of agent)  
.....  
.....

**SUPERVISION BY THE PRINCIPAL CONTRACTOR:**

**PRINCIPAL CONTRACTOR:** (full particulars of principle contractor / contractor)

**Mr /Ms/Me** - **CONSTRUCTION HEALTH & SAFETY OFFICER**  
(add full details and contact of this officer)

.....  
.....

**Mr /Ms/Me** - **CONSTRUCTION HEALTH & SAFETY MANAGER**  
(add full details of this officer)

.....  
.....

**Mr /Ms/Me** - **CONSTRUCTION HEALTH & SAFETY AGENT**  
(add full details of this officer)

.....  
.....

**Mr /Ms/Me** - **CONSTRUCTION MANAGER**  
(add full details of the head of the project)

.....  
.....