

# public works & infrastructure

# Department: Public Works and Infrastructure REPUBLIC OF SOUTH AFRICA

Department of Public Works and Infrastructure: Bloemfontein Regional Office: 18 President Brand Street, Bloemfontein, 9300. (T) 051 408 7335 (M) 060 478 9004

**TENDER NO: BL23/008** 

BLOEMFONTEIN DEPARTMENT OF PUBLIC WORKS: IMPLEMENTATION OF EMERGENCY BACK-UP POWER SUPPLY AT BETHULIE PRISON

| NAME OF TENDERER: |  |
|-------------------|--|
|                   |  |
| CIDE NO ·         |  |

**JUNE 2023** 

**RETURNABLE DOCUMENT** 



### **INDEX TO VOLUMES 1-3**

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| DPW-15(EC) – Schedule of Proposed Subcontractors   | 1 page           |
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| T2.2 Returnable Documents: Other Documents that will be incorporated into the contract                                 | Separation sheet |
| Part C1: Agreement and Contract Data   | Separation sheet |
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| DPW-05(EC) - Contract Data                               | 13 pages         |
|--|------------------|
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| Part C2: Pricing Data                                    | Separation sheet |
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| C3 Scope of Work   | Separation sheet |
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| C4 Site Information                                      | Separation sheet |

### **Volume 1: Tender Procedures**

**Part 1: Tender Procedures** 



84 Calendar days





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

#### THE DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE INVITES TENDERS FOR:

| Project title:    | DCS: SUPPLY AND I | SUPPLY AND INSTALLATION OF BACK UP POWER AT BETHULIE PRISON |                   |  |
|-------------------|-------------------|---|-------------------|--|
| Tender no:        | BL23/008          | Reference no:   | 4/2/1/1/1/35/6705 |  |
| Advertising date: | 30/06/2023        | Closing date:   | 25/07/2023        |  |

#### 1. REQUIRED CIDB GRADING

Closing time:

11:00

It is estimated that tenderers should have a CIDB contractor grading designation of 3 ME or 3 EB\* or higher. \* Delete "or select tender value range select class of construction works" where only one class of construction works is applicable

Validity period:

It is estimated that potentially emerging enterprises should have a CIDB contractor grading designation of 2 ME PE or 2 EB PE\* or higher.

#### 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  | $\boxtimes$ | Only those tenderers who satisfy the eligibility criteria stated in the Tender Data may submit tenders.  |  |
|----|-------------|--|--|
| 2  |             | 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  | $\boxtimes$ | Use of correction fluid is prohibited.   |  |
| 4  | $\boxtimes$ | Registration on National Treasury's Central Supplier Database.   |  |
| 5  | $\boxtimes$ | · Submission of (DPW-07 EC): Form of Offer and Acceptance.   |  |
| 6  |             | Submission of DPW-09 (EC): Particulars of Tenderer's Projects.   |  |
| 7  |             | Submission of DPW-16 (EC): Site Inspection Meeting Certificate   |  |
| 8  |             | Submission of record of attending compulsory virtual bid clarification / site inspection meeting.  |  |
| 9  |             | Submission of DPW-21 (EC): Record of Addenda to tender documents   |  |
| 10 | $\boxtimes$ | 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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<sup>\*</sup> Delete "or select tender value range select class of construction works PE" where only one class of construction works is applicable



Tender no: Error! Reference source not found.

| 11 |             | The tenderer shall submit his fully priced and completed sectional summary- and final summary pages with the tender. |
|----|-------------|--|
| 12 | $\boxtimes$ | All parts of tender documents submitted must be fully completed in ink and signed where required                     |
| 13 | ×           | Submission of DPW-21 (EC): Record of Addenda to tender documents ( if an addendum was issued)                        |

#### 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  | ×           | 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  | $\boxtimes$ | 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  | $\boxtimes$ | Submission of (PA-09 (EC)): List of Returnable Documents   |
| 4  | $\boxtimes$ | Submission of (PA-11): Bidder's disclosure.  |
| 5  | $\boxtimes$ | Submission of (PA-16): Preference Points Claim Form in terms of the Preferential Procurement Regulations 2022  |
| 6  |             | Submission of (PA 40): Declaration of Designated Groups for Preferential Procurement.  |
| 7  | $\boxtimes$ | Submission of proof of Registration on National Treasury's Central Supplier Database (CSD).  |
| 8  |             | Submission of DPW-15 (EC): Schedule of proposed sub-contractors  |
| 9  |             | The tenderer shall submit his fully priced Bills of Quantities (complete document inclusive of all parts) within 14 days from request.   |
| 10 | $\boxtimes$ | Upon request, submission of fingerprints obtainable from local SAPS including any other additional documentation and information required for vetting purposes.  |
| 11 | $\boxtimes$ | 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. |
| 12 | $\boxtimes$ | Submission of DPW-09 (EC): Particulars of Tender's Projects.   |
| 13 | $\boxtimes$ | The tenderer must submit a valid original or certified copy of B-BBEEE certificate/sworn affidavit or DTI certificate together with the bidder's documentation at closing.   |

#### 3. Method to be used to calculate points for specific goals

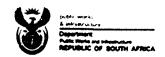
|                |   |               |   |   | and up to R1 Million                 |
|----------------|---|---------------|---|---|--------------------------------------|
| melusi         | ve of all applicable t                        | axes) the spe | cific goals liste                           | <u>d below are appli</u>  | <u>cable.</u>                        |
| Stantal<br>No. | Spaditors                                     |               | Preférence<br>Points Allocated<br>VII of 20 | મંગેઇલમાં તેમાં કોઈ છે.<br>સંગ્રહિત કેટલ કોઇલ કોઇલ<br>કેટલ કેટલ કેટલ કેટલ કેટલ કેટલ કેટલ કેટલ | io cé submitteo by<br>le ineir claim |
| 1.             | An EME or QSE v<br>least 51% owned<br>people. |               | 10  | ID Copy.  Of SANAS Accredit Sworn Affidavitior CSD Report.                                    | ted BBBEE Certificate/               |

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".

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|    |  |   | or<br>CIPC (Company registration)  |
|----|--|---|--|
| 2. | Located in a specific Local Municipality or District Municipality or Metro or Province area for work to be done of services to be rendered in that area. | 2 | Office Municipal Rates Statement. or Permission to occupy from local chie case of rural areas (PTO). or Lease Agreement  |
| 3. | An EME or QSB which is at least 51% owned by women   | 4 | ID Copy or CSD Report or CIPC (Company Registrations)  |
| 4. | An EME or QSE which is at least 51% owned by people with disability.   | 2 | Medical Certificate or South African Social Security Ager (SASSA) Registration or National Council for Persons we Physical Disability in South African (NCPPDSA) |
| 5. | An EME or QSE which is at least 51% owned by youth.  | 2 | ID Copy<br>or<br>CSD Report<br>Or<br>CIPC  |

For procurement transaction with rand value greater than R1 Million and up to R50 Million (Inclusive of all applicable taxes) the specific goals listed below are applicable.

| 12(0)<br>  12(0)<br>  12(0) | Specific Goals  | Points | Documentation ; it is sees submitted to selection to selection to see selections to select |  |
|-----------------------------|---|--------|--|--|
|                             | An EME or QSE which is  | 10     | ID Copy.   |  |
|                             | at least 51% owned by   |        | or   |  |
|                             | black people.   |        | SANAS Accredited BBBEE Certificate/ Sworn Affidavit.   |  |
|                             | (Bidders must submit  |        | or   |  |
|                             | all documents listed on   |        | CSD Report.  |  |
|                             | the right )   |        | or   |  |
|                             |   |        | CIPC (Company registration)  |  |
| 2.                          | Located in a specific Local Municipality or District Municipality or Metro or Province area for work to be done or services to be rendered in that area.(Located in the | 2      | Office Municipal Rates Statement. or Permission to occupy from local chief in case of rural areas (PTO).   |  |
|                             | Free State Province)  |        | Lease Agreement  |  |
| 3.                          | An EME or QSE which is  | 4      | ID Copy  |  |
|                             | at least 51% owned by   |        | or   |  |
|                             | women.(Bidders must   |        | CSD Report   |  |
|                             | submit all documents  |        | or   |  |
| L                           | listed on the right)  |        |  |  |

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".

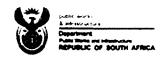
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 $\boxtimes$ 



|    |  |   | CIPC (Company Registrations)   |
|----|--|---|--|
| 4. | An EME or QSE which is at least 51% owned by people with disability. | 2 | Medical Certificate or South African Social Security Agency (SASSA) Registration or National Council for Persons with Physical Disability in South Africa registration (NCPPDSA) |
| 5. | An EME or QSE which is at least 51% owned by youth (Mandatory)       | 2 | ID Copy<br>or<br>CSD Report<br>Or<br>CIPC  |

For procurement transaction with rand value greater than R50 Million (Inclusive of all applicable taxes) the specific goals listed below are applicable.

| Serial | Specific Goals                                    | Preference<br>Points Allocated<br>out of 10 | Documentation to be submitted by bloders to velocities and the submitted of the block of the blo |
|--------|---|---|--|
| 1.     | An EME or QSE which is at                         | 4   | ID Copy.   |
|        | least 51% owned by black                          |   | or   |
|        | people.   |   | SANAS Accredited BBBEE Certificate/<br>Sworn Affidavit.  |
|        |   |   | or   |
|        |   |   | CSD Report.  |
|        |   |   | or   |
|        |   |   | CIPC (Company registration)  |
| 2.     | Located in a specific Local                       | 2   | Office Municipal Rates Statement.  |
|        | Municipality or District<br>Municipality or Metro |   | or Permission to occupy from local chief in  |
|        | Province area for work to be                      |   | case of rural areas (PTO).   |
|        | done or services to be                            |   | or   |
|        | rendered in that area.                            |   | Lease Agreement  |
| 3.     | An EME or QSE which is at                         | 2   | ID Copy  |
|        | least 51% owned by women                          |   | or<br>CSD Report   |
|        |   |   | or CSD Report  |
|        |   |   | CIPC (Company Registrations)   |
| 4.     | An EME or QSE which is at                         | 2   | Medical Certificate  |
|        | least 51% owned by people                         |   | or   |
|        | with disability (Mandatory)                       |   | South African Social Security Agency   |
|        |   |   | (SASSA) Registration   |
|        |   |   | National Council for Persons with  |
|        |   |   | Physical Disability in South Africa  |
|        |   |   | registration (NCPPDSA)   |
|        | OR  |   |  |
|        | OK  |   |  |
| _      |   |   |  |
| 5. 🗌   |   | 2   | ID Copy  |

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| An EME or QSE which is at least 51% owned by youth (Mandatory  NB. (The use of this goal is mandatory however the BSC | or<br>CSD Report<br>Or<br>CIPC |
|---|--------------------------------|
| must select either one of the two and not both)   |                                |

#### 4. Functionality criteria:

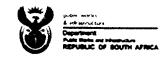
**Note:** All bids involving the acquisition of engineering and construction works from cidb Grade 3 and above are subjected to functionality.

| Functionality criteria:         |                                    | Weighting factor                             |
|---------------------------------|------------------------------------|--|
|                                 |                                    | N/A  |
|                                 |                                    |  |
| •                               |                                    |  |
|                                 |                                    |  |
|                                 |                                    |  |
|                                 |                                    |  |
|                                 |                                    | ,  |
|                                 |                                    |  |
|                                 |                                    |  |
|                                 |                                    |  |
| etal                            |                                    | 100 Points                                   |
| nimum functionality score to qu | ralify for further evaluation:     | N/A  |
|                                 | •                                  | ove the 50 Percent, provide motivation below |
| BID EVALUATION METHOD           | •                                  | ,,   |
|                                 | ng to the preferential procurement | model in the PPPFA: (Tick applica-           |
| ⊠ 80/20                         | 90/10                              | Either 80/20 or 90/10                        |

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.

#### 6. 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:



T<sub>1</sub>

Tender offers will be evaluated by an Evaluation Committee based on the technical and commercial risk critical 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.

#### 6.1 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.

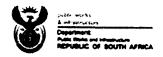
Aspects to be regarded as "comparable" includes (but may be extended according to circumstances): size of projects (measured against monetary value or other project quantifying parameters), nature of projects (building, engineering, high/low rise, etc.), locality/area of execution (site-specific influences, 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 during the past 5 years 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.

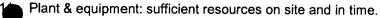
Aspects to be considered include, but are not limited to the following:

- 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;
- 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.



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.

#### 6.2 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.

#### 7. 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 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 |
|-----|---|----------------|
| (b) | 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 |



| (c) | Minimum Targeted Local Labour Skills Development Contract Participation Goal in accordance with the cidb Standard for Contract Participation Goals for Targeting Interprises 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) | 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 |
| (e) | 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 – Condition of Contract.   | Not applicable |
| (f) | DPWI National Youth Service training and development programme (NYS) – Condition of Contract.   | Not applicable |
| (g) | Labour Intensive Works – Condition of Contract.   | Not applicable |
| (h) |   | Select         |
| (i) |   | Select         |

### 8. COLLECTION OF TENDER DOCUMENTS

| $\boxtimes$ | Bid documents are available for free download on e-Tender portal <u>www.etenders.gov.za</u>  |
|-------------|--|
| $\boxtimes$ | Alternatively; Bid documents may be collected during working hours at the following address 18 President Brand Street, Bloemfontein, 9300. A non-refundable bid deposit of R 100.00 is |
|             | navable (cash only) on collection of the hid documents   |

#### 9. SITE INSPECTION MEETING

A pre-tender site inspection meeting will **not be** held in respect of this tender. Attendance of said pre- tender site inspection meeting is **not compulsory** 

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

| Venue:                | N/A |                |     |
|-----------------------|-----|----------------|-----|
| Virtual meeting link: | N/A |                |     |
| Date:                 | N/A | Starting time: | N/A |

#### 10. ENQUIRIES



Enquiries related to tender documents may be addressed to:

| WI Project Manager: | Siphokazi Belot            | Telephone no: | 051 408 7335 |
|---------------------|----------------------------|---------------|--------------|
| Cellular phone no:  | 060 748 9004               | Fax no:       |              |
| E-mail:             | Siphokazi.belot@dpw.gov.za |               |              |

#### 11. 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 retyped).

| Tender documents may be posted to:   |    | Deposited in the tender box at:   |  |
|--|----|---|--|
| The Director-General Department of Public Works and Infrastructure Private Bag X 20605 |    | Department of Public Works<br>18 President Brand Street<br>Bloemfontein<br>9300 |  |
| BLOEMFONTEIN<br>9300   | OR |   |  |
| Attention: Procurement section: Room 233   |    |   |  |

#### 12. COMPILED BY:

| 5. HLANGWAMM            | Thong -   | 10 | 105 | /2023 |
|-------------------------|-----------|----|-----|-------|
| Name of Project Manager | Signature | 1  | Da  | te    |

# T 1.2 Tender Data



### **DPW-03 (EC): TENDER DATA**

| Project title: | DCS: SUPPLY AND INSTALLATION OF BACK UP POWER GENERATOR AT BETHULIE PRISON |
|----------------|--|
| Reference no:  | 4/2/1/1/35/6705  |

| Tender no:    | BL23/008 | Closing date:    | 25/07/2023 |
|---------------|----------|------------------|------------|
| Closing time: | 11:00    | Validity period: | 84 days    |

| Clause number: |   |
|----------------|---|
| number.        | 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 www.cidb.org.za).  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.  Each item of data given below is cross-referenced to the clause marked "C" in the above mentioned Standard |
| C.1.1          | Conditions of Tender.  The employer is the Government of the Republic of South Africa in its Department of Public Works and Infrastructure.   |
| C.1.2          | For this contract the three volume approach is adopted.   |
|                | This procurement document has been formatted and compiled under the headings as contained in the CIDB's "Standard for Uniformity in Construction Procurement."  |
|                | The three volume procurement document issued by the employer comprises the following:   |
|                | Volume 1: Tendering procedures T1.1 - Notice and invitation to tender (PA-04 EC) T1.2 - Tender data (DPW-03 EC)  Volume 2: Returnable documents T2.1 - List of returnable documents (PA-09 EC) C1.1 - Form of offer and acceptance (DPW-07 EC) C1.2 - Contract Data T2.2 - Returnable schedules   |
|                | Volume 3: Contract Part C1: Agreement and contract data C1.2 - Contract data (Part 1: Data provided by employer) (DPW-04 EC or DPW-05 EC) C1.3 - Form of guarantee (DPW-10.1 EC / DPW-10.3EC or DPW-10.2 EC/DPW-10.4 EC)  |
|                | Part C2: Pricing data C2.1 - Pricing Assumptions (PG-02.2 EC or PG-02.1EC) C2.2 - Bills of Quantities / Lump sum document (if not a returnable document)  |
|                | Part C3: Scope of work C3 - Scope of work (PG-01.2 EC or PG-01.1EC)   |
|                | Part C4: Site information<br>C4 - Site information (PG-03.2 EC or PG03.1EC)   |



Tender no: BL23/008

|                 | Name:     | Cinhakani Balat                                |
|-----------------|-----------|--|
|                 | Name:     | Siphokazi Belot                                |
|                 | Capacity: | Departmental Project Manager                   |
|                 | Address:  | 18 President Brandt Street, Bloemfontein, 9300 |
|                 | Tel:      | 060 748 9004                                   |
|                 | Fax:      | N/A  |
|                 | E-mail:   | siphokazi.belot@dpw.gov.za                     |
| C.2.1<br>C.3.11 | A. ELIGIB | ILITY IN RESPECT OF CIDB REGISTRATION:         |

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, with this tender, acceptable documentary proof thereof):

- 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 3 ME or 3 EB\*\* class of construction work; and
- 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

Joint ventures are eligible to submit tenders provided that:

- 1. every member of the joint venture is registered with the CIDB;
- the lead partner has a contractor grading designation in the 3 ME or 3 EB\*\* class of construction work;
- 3. 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 3 ME or 3 EB\*\* class of construction work
- \*\* Delete "or select tender value range select class of construction works" where only one class of construction works is applicable

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** 

Tender no: BL23/008



#### B. INDICATE THE FUNCTIONALITY WEIGHTING APPLICABLE TO THIS BID:

<u>Note:</u> 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.

| Functionality Criteria | Weighting Factor |
|------------------------|------------------|
| N/A                    | N/A              |
|                        |                  |
|                        |                  |
|                        |                  |
|                        |                  |
| Total                  | 100 Points       |

(Weightings will be multiplied by the scores allocated during the evaluation process to arrive at the total functionality points)

| onality score to qualify for further evaluation: |  |
|--|--|
|--|--|

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

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

#### Provisions applicable to Evaluation Method 1 and 2:

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 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 Project Manager, failing which the tender offer will *mutatis mutandis* be declared non-responsive.

#### C.1. Technical risks:

#### C.1.1 Criterion 1: Quality of current and previous work

Quality of current and previous work performed by the Tenderer in the class of construction work stated above as per the evaluation report prepared by the Professional 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).

#### C.1.2 Criterion 2: Contractual commitment

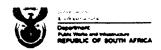
Adherence to contractual commitments, demonstrated by the Tenderer in the performance on current and previous work, evaluated in terms of:

- a) 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;
- b) the degree to which previous projects have been completed within the contractual completion periods and/or extensions thereto; and
- c) general contract administration, i.e. compliance with contractual aspects such as laws and regulations, insurances, security, written contract instructions, subcontractors, time delay claims, etc as can generally be expected in standard/normal conditions of contract.

#### C.2 Commercial risks:

The level to which agreement with the Tenderer is reached in respect of the adjustment of rates which are considered to be imbalanced or unreasonable and to eliminate errors or discrepancies, without changing the tendered total price, over and above the correction of arithmetical errors as provided for in C.3.9.

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| 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 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. |
|                    | 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.  |
|                    | 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.   |
|                    | Alternative tender offer permitted: Yes ☐ No ☒   |
| C.2.13.2           | 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.  |
| C.2.13.5           | 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.  |
| C.2.13.6<br>C.3.5  | A two-envelope procedure will not be followed.   |
| C.2.15             | The closing time for submission of tender offers is as per Notice and Invitation to Tender T1.1.   |
| C.2.16             | The tender offer validity period is as per Notice and Invitation to Tender T1.1.   |
| C2.16.3            | Omit the wording of the last sentence for those projects which are subject to CPAP   |
| C.2.18             | The tenderer will be required to submit his fully priced Bills of Quantities / Lump Sum Document (complete document inclusive of all parts):   |
|                    | ☐ Together with his tender;  |
|                    | Or  Within fourteen (14) calendar days of the date on which he has been requested to do so prior to the award of the contract.   |
| C.2.19             | Access shall be provided for inspections, tests and analysis as may be required by the Employer.   |
| C.3.4.1<br>C.3.4.2 | The location for opening of the tender offers, immediately after the closing time thereof shall be at: 18 President Brandt Street, Bloemfontein, 9300  |
| C.3.8              | The words "responsive tender" and "acceptable tender" shall be construed to have the same meaning.   |
| C.3.9.3            | Omit the wording and replace with the following: "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."  |
|                    |  |



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| C.3.9.4  | Omit the wording of the first sentence and replace with the following: "In cases where tender offers contain errors, omissions and/or rate imbalances, these are to be corrected as follows:"  |
|----------|--|
| C.3.9.4  | Add sub paragraph c) to C.3.9.4, as follows:  "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."                 |
| C.3.11.1 | The procedure for the evaluation of responsive tenders is Method 2: Financial Offer and Preference.  |
| C.3.13   | 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; |
| C.3.17   | Provide to the successful tenderer one copy of the signed contract document.   |



#### Further Conditions of Tender (Extension of DPW03)

#### COMPENSATION FOR OCCUPATIONAL INJURIES AND DISEASES ACT (COIDA):

In compliance with the Compensation for Occupational Injuries and Diseases Act (COIDA), site handover to the successful bidder will only take place once he/she has provided a valid "Proof of Registration" or "letter of Good Standing" issued by the Compensation Commissioner, clearly specifying the nature of business which must be within the relevant category.

#### SECURITY CLEARANCE:

In compliance with the Department's Internal Security Policy drafted in terms of the Minimum Information Security Standards (MISS) and other security legislation, no service provider shall render any service to the Department without the necessary security clearance.

Bidders will thus be subjected to, and must pass a Security Clearance check undertaken by the Department prior to the award of bids.

The Department reserves the right to cancel a bid should the bidder fail to pass the Security Clearance check.

#### QUALIFICATION OF PERSON UNDERTAKING ELECTRICAL WORK:

Site handover to the successful bidder will only take place once he/she has submitted acceptable proof of accreditation of the person undertaking any electrical work and which person will thereafter issue the Electrical Certificate of Compliance.

# **Volume 2**

# **Returnable Document**

**T 2.1 List of Returnable Documents** 



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

| Project title:     | DCS: SUPPLY AND INSTALLATION OF BACK UP POWER GENERATOR AT BETHULIE PRISON |               |                 |  |
|--------------------|--|---------------|-----------------|--|
| Tender / Quote no: | BL23/008   | Reference no: | 4/1/1/1/35/6705 |  |
| Receipt Number:    |  |               |                 |  |

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

<u>Note</u>: 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 |
|--|------------------------|---------------------|
| Form of Offer and Acceptance (DPW-07 EC)   | 4 Pages                | Yes                 |
| Declaration of Interest and Tenderer's Past Supply Chain<br>Management Practices (PA-11)   | 4 Pages                | Yes                 |
| Resolution of Board of Directors (PA-15.1) (if applicable)   | 1 Page                 | Yes                 |
| Resolution of Board of Directors to enter into Consortia or JV's (PA-15.2) (if applicable)   | 2 Pages                | Yes                 |
| Special Resolution of Consortia or JV's (PA-15.3) (if applicable)  | 3 Pages                | Yes                 |
| Preference points claim form in terms of the Preferential Procurement Regulations 2017 (PA – 16)   | 5 Pages                | Yes                 |
| Certificate of independent Bid Determination (PA - 29)   | 4 Pages                | Yes                 |
| Declaration Certificate for Local Production and Content for   | N/A                    | Yes                 |
| designated sectors (PA - 36 and Annexure/s C) 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) (if applicable).   | 1 Page                 | N/A                 |
| Record of attending compulsory virtual bid clarification / site inspection meeting (if applicable).  | 1 Page                 | N/A                 |
| Record of Addenda to tender documents (DPW-21 EC)  | 1 Page                 | Yes                 |
| Site Inspection Meeting Certificate (DPW-16 EC) (if applicable)  | 1 Page                 | N/A                 |
| Proof of 30% Subcontracting participation and related documents in terms of the Preferential Procurement Regulations 2017 (if applicable). | N/A                    | N/A                 |
|  |                        |                     |
|  |                        |                     |
|  |                        |                     |
|  |                        |                     |

<sup>\*</sup> In compliance with the requirements of the CIDB SFU Annexure G



Tender no:

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 (if applicable) | -                      | Yes                 |
|  |                        |                     |
|  |                        | 1000                |

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) (if applicable)                         | 1 Page                 | Yes                 |  |
| Particulars of Electrical Contractor (DPW-22 EC) (if applicable)                         | 1 Page                 | Yes                 |  |
| Mechanical / Electrical / Security Work material and equipment schedules (if applicable) | 5 Pages                | Yes                 |  |
| Schedule for Imported Materials and Equipment (DPW-23 EC) (if applicable)                | 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)

<u>Note</u>: 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) | 38 Pages               | ⊠Yes □No            |
| Fully priced and completed sectional summary- and final summary pages with the tender.    | Pages                  | □Yes □No            |
| insert document name  | Pages                  | □Yes □No            |
| insert document name  | Pages                  | □Yes □No            |
| insert document name  | Pages                  | □Yes □No            |



Tender no:

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

| Legal  | Status of Tendering Entity:  | Documentation to be submitted with the tender, or which may be required during the tender evaluation:   |  |
|--------|--|---|--|
| If the | Tendering Entity is:   | may be required during the tender evaluation:   |  |
| а.     | 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  |  |
|        | A profit company duly registered as a private company.  [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:  i. Certificate of Incorporation – CM1;  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 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.     | incorporated in terms of Section 10 and Schedule 1 of the Companies Act, 2008 (Act 71 of 2008, as amended).  | Copies of:  I the Founding Statement – CK1; and 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.  |  |
|        | A natural person, sole proprietor or a Partnership   | Copy(ies) of the Identity Document(s) of:  i. such natural person/ sole proprietor, or each of the Partners to the Partnership.   |  |
| g.<br> | 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:

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

# C 1.1 Invitation to Bid/Form of Offer and Acceptance



| Project title:   | DCS: SUPPLY AN BETHULIE PRISON   | O INSTAL  | LATION OF BACK  | UP POWER GENERATOR A  |
|--|--|---|---|---|
| Tender no:   | BL23/008   |   | Reference no:   | 4/2/1/1/1/35/6705   |
| OFFER  |  |   |   |   |
| rocurement or:   | fied in the acceptance sign  |   |   | rs to enter into a contract for the   |
| he Tenderer, identifie<br>hereto as listed in the              | ed in the offer signature block returnable schedules, and b  | , has exam<br>ly submittir  | ined the documents li<br>g this offer has accep                           | isted in the tender data and addendated in the conditions of tender.                        |
| By the representative acceptance, the Tend notuding compliance | of the Tenderor, deemed<br>lerer offers to perform all of  | to be duly<br>the obliga  | autherized, signing<br>tions and liabilities o<br>ing to their true inter | this part of this form of offer and fithe Contractor under the contractor the serious to be |
| THE TOTAL OFFER !  | NCLUSINE OF ALL APPLICAT<br>It insurance fund contributions a  | BI.S. TANKS<br>nd skais dev   | (Ali upplantus toves" in<br>dopmits (fevies) 🐼                            | icludes value- added tax, gay os you earn   |
| Rand (in words):   |  |   |   |   |
| Rand in figures:   | Q  | THE THE THE STATE OF THE STATE |   |   |
| The award of the tender m considered for acceptance            | ay be subjected to further price neg   | otiation with t   | ne preloced renderer(s). T  | he respitated and agreed price wit be   |
| his offer may be accepturning one copy of                      | epted by the Employer by si<br>this document to the Tender   | er palere r   | ha end of the period.   | s form of of er and novembance and of vender data notified in the                           |
| HIS OFFER IS MAD!<br>Company or Close Co                       | EBY TREFOLLOWING LEA   | CALESTI   | TY: Turbest eat block v<br>Material Person of Pa                          | which is not applicable)<br>rtnersele:  |
|  | ······································   |   |   | · · · · · · · · · · · · · · · · · · ·   |
| And: Whose Registrati  | ion Number ic:   | un.   | Minosa identilly Numb   | rer(s) (s/ore:  |
| And: Whose Income T  | ax Reference Number is:  |   | Whase Income Tax R  | teference Number is/arc:  |
| CSD supplier number  | er   |   | CSD supplier numb   | er  |
|  | The second secon |   |   |   |
| -  | ×.**!  | १४८० है।  | losyticopis):   |   |

<sup>&</sup>quot;Any reference to words "Bid" or "Grido" have land/or in the object and unsatisfied nest be constitued to trave the ratio measure as the words "Landered" "Any reference to the words "have not be constituted to the words "have not be constituted to the words "have not be constituted to the constituted to the words "have not be constituted to the constitu



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| Ł | ^ | n | N | ^ |   | n  | ^ | ٠ |
|   | c |   | u | c | ī | 11 | u |   |

|                   |   | AND WHO IS:  |   |  |  |
|-------------------|---|--|---|--|--|
| N                 | Represented herein, and who is duly authorised to do so, fir/Mrs/Ms:  In his/her capacity as:   | A Resolution / Power of Attor<br>Members / Partners of the Le    | Note:  A Resolution I Power of Attorney, signed by all the Directors I Members I Partners of the Legal Entity must accompany this Offer, authorising the Representative to make this offer. |  |  |
| SIG               | NED FOR THE TENDERSS:   |  |   |  |  |
| -                 | Name of representative  | Signature  | Date:   |  |  |
| WIT               | NESSED BY:  |  |   |  |  |
|                   | Name of witness   | Signature  |   |  |  |
| The<br>The<br>Owr | offer is in respect of: (Please indicate with an "X" official documents   | on therefore)  | (% Bit Separate Office and Acceptance acceptance acceptance for the main and for cash othernedve order)   |  |  |
|                   | VAT) will be applicable and will be deducted by the En-<br>in respect of contracts above R1 million, the Tenderer   | mployer in terms of the applicable connit                        | ions of contract  |  |  |
|                   | (1) cash deposit of 10 % of the Contract Sum (excluding   |  | Ysa 🔲 No 🗍  |  |  |
|                   | (2) variable construction guarantee of 10 % of the Con-   | itract Sum (excluding VAT)                                       | Yes [] No []  |  |  |
|                   | (3) payment reduction of 10% of the value certified in t  | he payment perdicate (excluding VAT)                             | Yes 🔲 Wo 🗍  |  |  |
|                   | (4) cash deposit of 5% of the Common Sum (excluding of the value certified in the payment certificate (exc  |  | Yes 🔲 No 🗍  |  |  |
|                   | (5) fixed construction guarantee of 5% of the Contract reduction of 5% of the value occulied in the payment   | Sum (excluding NAT) and a payment in oertificate (excluding NAT) | Yes 🔲 No 🗀  |  |  |
| 1998              | Suarantees submitted must be iscused by Giber an incurance of (Act 52 of 1998) or Short-Term Insurance Act. 1998 (4ct 55 of ) on the pro-formal referred to above, the afterbloos or amendo | of 1998)) or brille back upovinciatered research                 | s of the Fooks Act 1915 (Act 84 of  |  |  |
| The<br>notic      | Tenderer elects as its dermolium oitendrict exec<br>des may be served, as (physical educess):   | autenci la Bie Piepunia et South Air                             | ical where any and Willeger   |  |  |
|                   |   |  |   |  |  |

<sup>&</sup>quot;Any reference to words "Bid" or "Diriue: have a charge that yielder documentation shall be prestured to have the sector meaning of the unique "Tender" or "Tenderer".

TANY reference to the words "payment recent of metern and be dollar over a capital search as a ring as the word extends of For internal & External Use



| Department Department   |   |
|---|---|
| Department: Public Wars and Gerassulative REPUBLIC OF SOUTH AFRICA  of Office: and Acceptance   | DPW-07 (EC): Form   |
| Ter rno:  |   |
| Other Contact Details of the Tenderer are:  |   |
| Teleph Ca No. Cellular Phone No.  |   |
| Fax No  |   |
| Postal address  |   |
| Banker Branker  |   |
| Registration No of Tenderer at Department of Labour   |   |
| CIDB Registration Number:   |   |
|   |   |
| ACCEPTANCE  |   |
| consideration thereof, the Employer shall pay the Contractor the amount contract identified in the contract data. Acceptance of the Tengerada officemployer and the Tenderer upon the terms and conditions contained in this subject of this agreement.   | er shall form an agreement between the  |
| The terms of the contract are constalned 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 pans thereof, where the above listed Parts.   | ion may be incorporated by reference into   |
| Deviations from and amendments to the documents hoted in the featurer detected schedules as well as any changes to the terms of the offer a greed by process of offer and acceptance, are contained in the schedule of deviating agreement. No amendments to or deviations from said documents are wolld.   | the Tenderer and the Employed during this<br>ions attached to and forming part of this    |
| The Tenderer shall within two wheats after receiving a completed copy of deviations (if any), contact the Employer's agent (whose details are given in of any securities, bonds, guaraniess, proof of insurance and any other it conditions of contract identified in the contract data. Failure to fulfill any of titlerms shall constitute a repudiation of this agreement. | ithe contract date) to arrange the colivery umentation to be provided in terms of the     |
| Notwithstanding anything contained herein, this agreement comes two offer one fully completed original copy of this document, including the schedule (now contractor) within five (5) working days of the date of such receipt not why he/she cannot accept the corrects of this agreement, this agreement  | of deviations (if any). Unless the tenderer<br>fies the employer in writing of any reason |

the parties.

| or the Employer:                       |                                |      |
|--|--------------------------------|------|
| Name of signatory                      | Signature                      | Date |
| Name of Organisation: Copartment of Pt | ublic Works and infractivities |      |
| Address of<br>Organisation:            |                                |      |
| ITNESSED BY:                           |                                |      |
|  |                                |      |
| Name of withesa                        | Signature                      |      |

<sup>\*</sup>Any reference to words "Bid" or "Bid as " fedes, and/or in any other documentations shell be construed to have the same meanurges the words "Tenderer".

\*\*Any reference to the words "paymor this cultival hardin shall be construed in fact and a research and the word trend to the word trend to a fact by a

#### of Offer and Acceptance

DPW-07 (EC): Form

Ter no:

#### Schedule of Deviations

| 1.1.1.  | Subject: | i |
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| Detail: |          |   |
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| 440     |          | į |
| 1.1.6.  | Subject: |   |
| Detail: |          |   |

By the duly authorised representatives signing this agreement, the Employer and the Tendorer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the accuments 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 Tenderch of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this agreement.

<sup>&</sup>quot;Any reference to words "Bid" or "Expéril Pereix and/or in any pinns documentation and the sond area the seme meaning as the words "Tender" or "Tenderer".

<sup>&</sup>quot;"Any reference to the words "beyman, lecunius" itistem shall be construed to beyour liber of chanting as indiverse tratement. Do Internal & External Use

# C 2.2 Bills of Quantities

# Section 1:

Prelimination

G.

Section 20

Bill of Quantities

#### PGA

#### BETHULE

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# SPECIFICATION FOR THE SUPPLY DELIVERY AN INSTALLATION OF EMERGENCY GENERATOR SET/S

#### SECTION 1 - GENERAL

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#### SECTION 1 - GENERAL

#### Intent of Decument

The specification is intended to cover the complete installation of a new containerised and silenced 125kVA diesel alternator generator (DA) plant with ATS ( auto transfer switch) to feed the entire Prison; the associated switchboards and electrical work; the complete refurbishment of the main LV switchboard and the supply and installation of replacement circuit breakers in the existing LV board (BDA) to replace the old style E frame CB which are not in good condition; the installation of new 1x 4c 70mm sq LV main feeder cable from the boundary board to the set and from the set to the main DB, the labelling of the existing DBs ( both internally and externally) to mark the feeder cables, recidioalon of general electrical work on site and the upgrading and repair of DB boards and klooks. The casting of new plinth and observes for the DA set and trenching of the new cables and connections; the issue of a CCC for the complete works. 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.

The sound level measured on site after installation of the set shall not exceed 65db @ 7 metres including the exhaust at full load and/ or in compliance with the local Municipal by laws for residential areas – whichever is the lowest. If this is not achieved additional silencing will be installed at the Contractors cost.

In all cases there a device or part of the equipment is referred to in the singular, it is intended that such reference shall apply to as many devices as are required to complete the installation.

#### 2. Standard and Codes

All work and equipment shall be in accordance with the requirements of BS3514, SANO 0142 and shall comply with the Occupational Health and Safety Act. No 85 of 1993 and current regulations of all other codes applicable to this work.COO Certificates shall be issued for all his GRs and the electrical work conducted under his contract.

#### 3. Regulations

The installation shall be erected and testad in accordance with the following Acts and regulations:

- a) The Interesting of SABS 0142: "Code of Fractice for the Winng of Premises",
- b) The Occupational Health and Safety Act, 1993 (Act 85 of 1993) as amended,
- c) The nocel Government Ordinance 1939 (Ordinance 17 of 1939) as amended and the municipal by-laws and any special requirements of the local supply authority,
- d) The Fire Bridade services Act 1993 Act 99 of 1987 as amended,
- e) The National Building Regulations and Building Standards Act 1977 (Act 103 of 1977) solemended,
- f) The Poul Cifice Act 1953 (Act 44 of 1953) as aniended.
- g) The (Rectricity Act 1984 (Act 41 of 1984) as amended and
- h) The Regulations of the local Gas Board visitors applicable.

#### 4. Scope of Work

Supply, do kery and installation of the complete new containerised and silenced emergency placed atternator generator sets (DA) with ATS, associated switchboards and general electrical mark as specified in this document ungrading of existing EV board, the

entire prison shall be connected shall be connected to the emergency power supplied by the DA sets through a single change over. All DBs shall be relabelled and painted red

#### **DETAILED TECHNICAL INFORMATION:**

#### BETHULI CORRECTIONAL CENTRE:

- 1. Provide a new outdoor weatherproof and silenced, containerized 125kVA DA set (prime rated) with 26h diesel base tank (fitted with lockable fill pipe, and manual fill pump with hose for drum fuel supply) and rigid steel base frame, mount on new level 200mm high concrete plinth cast under this contract, provide ATS change over panel and cable to the local boundary board power supply and to the existing realn LT board; a full fuel tank shall be included on frame over after all leading has been complished; set chall be weather proofed and silenced to realizable believed. The sound level from the set, measured on vito after ineralization of the set shall not exceed \$500A © 7 metres (all orientations) bedieding the exhaust at full load.
- 2. Supply new control panel and ALS at the generator, run new LV supply from the existing site boundary board and from the generator to existing main LV DB.
- 3. Refurbish and re-equip the existing main LV board with new equipment and new circuit bresters ( coordinate all shut downs with the user to encure that the DCS is not compromised when work in being done)
- 4. Label and paint all field DS face plates RED to indicate emergency power, provide internal legands and cable feed information for all take

Any required building work, transhing and expandion is to be parried out under this contract by a quainfied master builder employed by the DA/electrical Conflactor under this contract.

All electrical typix is to be carried out by competent electrical contractors registered with the ECA uniter full time supervision.

#### 5. Co-ordination

The standby generator shall be a new silenced containerised set with base mounted diesel tank rated for 24h operation at 80% load, positioned on site at a location to be agreed with the user and the engineer

The Confractor shall co-ordinate his program with the User client and obtain written agreement of the programme and any power shut down required during the installation.

Delays due to tack of co-ordination between the Contractor and the User shall not form a basis for claims to the Contractor of this Contract.

#### 6. Test Certificates and Inspections

The following tests are to be carried out:

- (a) At the cupplier's premises, before the generating set will be delivered to site Representatives of the Department may be present during the test to satisfy them that the generating set compiles with the specification and delivers the specified output. The test must be carried out in accordance with SSS 5314, Part 2 and 3. The Department must be timeously advised of the date for the test.
- (b) After completion of the works and before first underty is taken, a full load test will be detried out on the installation on 110% load for at least 1 hours 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 as so.
- (c) The Decideror shall provide all instruments are equipment required for tosting and any water instrument for the instrument and testing of the instrument at completion. Load banks with aready loads shall be provided for testing.
- (d) Test reports of both tests as specified undolve) and (b) are to be submitted to the Department

#### 7. Guarantee and Maintenance

The Contractor of an agrarantee the complete plant for a cared of twelfth months after the first delivery has taken place.

If during this enclod the plant is not in working order or not working satisfactorily owing to faulty material, design or workmanship, the Conscious will be notified and immediate steps shall be follow by him to rectify the defects and/or replace the affected parts on size at his own suppose.

The Confractor shall maintain the plant in good working condition for the full twelfth month period to the final delivery of the installation. However, should the Contractor fall to hand over the plant in good working order on the expiry of the specified twelfth months, the Contractor shall he responsible for further monthly translatione until final delivery is taken.

During this period the contractor will undertake to energy that the plant be inspected at least once per violately a qualified member of his staff and shall -

- (a) Report to the Officer-in-charge, keeping the conditionance repords, and enter into a log book the date of the visit, the tasks cannot out the adjustments made, and any further basis that may be required.
- (b) Greats and of moving parts, where necessary.

- (c) Check the air filter and, when necessary, clean the filter and replace filter oil.
- (d) Check the lubricating oil and top-up when necessary.
- (e) After the plant has run one oil change for the number of hours stipulated by the manufacturers, drain the sump and refill with fresh lubricating oil. The reading of the hour meter on the switchboard will be taken to establish the number of hours run by the plant.

Under this heading only the cost of the actual oil used, shall be charged as an extra on the monthly account.

- (f) Clean the lubricating oil filter and/or replace the filter element at intervals recommended by the engine manufacturer, the cost of a new filter element to be charged as an extra on the monthly account.
- (g) Check and when necessary adjust the valve settings and the fuel injection equipment.
- (h) Check the battery and top-up the electrolyte when necessary.
- (i) Test-run the plant for 0,5 hour and check the eutomatic starting with simulated facilis on the mains, the proper working of all parts, including the electrical gear the protective devices with fault indicators, the changeover equipment and the battery charger. Make the necessary adjustments
- (j) Report to the Department and to the Chatracter on any pans that become unservideable through fair wear and test, or beingged by causes beyond the control of the Contractor.

The Confractor on receiving the report, chall immediately submit a detailed quotation for the repair or replacement of such darks to the Dobartment.

- (k) Advise the Department when it are become necessary to de-carboniae the engine and submit a quotation for this service.
- (I) Top us the water of the radistor, if applicable
- (m) Clean the pleat and its components.

#### 8. 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 its judgement, are not in full apportance therewith. All condemned material and workmanship shall be replaced or rectified as directed and approved by the Engineer.
- (b) All work shall be executed in a first-class manner by qualified tradesman.
- (c) The Contractor shall warrant that the matter als and workmanship shall be of the highest grade that the equipment shall be installed in a practical and first-class matter in accordance with the basic products and ready and complete for this operation. It is specifically intended that the material or labour which is usually provided be part of such equipment as is usually for and which is necessary for its product completion and operation that page ideal without additional cost whether or not shown or described in the Contract Document.
- (d) The Corarsoror shall theroughly abquaint himself with the work involved and shall verify on site all measurements necessary for proper installation work. The Contractor shall also be prepared to erom poly furnish any information relating to his.

own work as may be necessary for the proper installation work and shall cooperate with and co-ordinate the work of others as may be applicable.

- (e) 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.
- (f) All control equipment and serviceable items shall be installed and positioned such that they will be accessible and maintainable.
- (g) The Contractor shall make sure that all safety regulations and measures are applied and enforced during the installation and guarantee periods to ensure the safety of the public and the User Client.
- (h) The Contractor is to include for all scaffolding required to complete the work required.

### 9. Imported Contani

This equipment will not be subject to fluctuations in the rate of exchange.

However, should the Contractor choose to be protected against fluctuations in the rate of exchange on imported equipment, the following conditions will apply:

- a) The Materials Offered Ex-Import (Annexure A), which forms part of this tender document, must be completed by the Contractor.
- b) Any fluctuations in the rate of exchange will be for the account of the Government and chart the calculated from a date seven (7) days prior to the date of the Contractor's tender to a date seven (7) days eiter receipt by the Contractor's bank of the negotiable bill of leding or the exponents invoice, provided this latter date is not later than 30 days after the date of payment. Thereafter, fluctuations in the rate of exchange shall not be for the account of the Government.

#### 10. Brochures

Detailed brookures of all equipment offered shall be presented together with the tender documents.

### 11. Submittain

The following information must accompany the tender documents

- (a) Full participants, performance curves and illustrations of the equipment offered, must be outmitted with the Tendor.
- (b) The design of the control system to comply with the requirements for automatic starting, stopping, interlocking and isolation as specified.
- (c) Curves termished 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 effectic generation.

The successful Tenderor must, as soon as posciple after receipt of the order, submit detailed drawings and wiring diagrams of the piem, and the switchgear. One diagram shall be contained in a materipoech on the side of the preferbiceard.

# SPECIFICATION FOR THE SUPPLY DELIVERY AN INSTALLATION OF AN EMERGENCY GENERATOR SET

# SECTION 2 - EQUIPMENT REQUIREMENTS

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#### SECTION 2 - EQUIPMENT REQUIREMENTS

#### 1. Engine

#### 1:1 General

The engine must comply with the requirements as laid down in BS 5514 and must be of the atomised injection, compression lignition type, running at a speed not exceeding 1500 r.p.m. The engine must be amply rated for the required electrical output of the sot, 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.

### 1.2 Prime 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 6S 5514.

#### 1.3 De-Rating

The engine must be de-rated for the site oppositions as set our in the Technical Specification, Capital 3 of this accument.

The de-rating of the engine for site conditions shot by strictly in accordance with 38 8514 of 1977 as accordance with 38 8514 of 1977 as accordance to date. Any other methods or de-rating must have the superovel of the Department and must be motivated in detail. Such do-rating must be guaranteed in writing and proved by the successful Tenderer acting rite rast

### 1.4 Starting and Stopping

The engine shall be fitted with an electric stader motor and be easily started from cold, without fits use of any special ignition devices under summer as well as winter conditions.

Tenderers result state what arrangements are provided to ensure doay starting in solid weather. But critical of this equipment must be as sourted, in the case of water cooled engines, any electrical heaters shall be thermostal cally controlled. The electrical circuit for such heaters shall be taken from the conditional and must be protected by a suitable enough breaker.

#### 1.5 Starter Ballson

The set must be supplied a fully charged lead-acid type poticity, complete with necessary electrolyte. The battery must have sufficient capacity to provide the starting torque stipulated by the engine makers. 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 becomes duration such. The battery must be of the heavy duty flow maintenance by e. I cause in a suitable battery box.

### 1.6 Cooling

The engine may us either of the air of water copied type. In the case of water-cooling, a built-on heavy cony is opical type pressurised radiator most be lided. Only stand-by sets that are water coderd 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 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.

#### 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 sclenoid on the engine and giving a visible and audible indication on the switchboard.

#### 1.8 Fuel Pump

The fuel injection equipment is suitable for operation with the commercial brands of diesel fuel normally syculable in South Africa.

#### 1.9 Fuel Tanks

A set mounted base fuel tank shall be included with each set. The tank shall have sufficient capacity for standby sets to run the engine on full load for a period of 24 hours.

A water trap is fitted in the fuel pipeline from the tenth to the engine.

The tank shall be fitted with a suitable lifter, a fast gauge glass, "low fast love!" clarm, giving an published wisible signal on the switchbashd as well as a low-low fast level out-out.

An manually operated pump with sufficient length of oil resistent hose to reach 2nd beyond the door shall be supplied, for each set for thing the first tank/s from 200 litre drums.

The interconnection fuel piping shall consist of copper tubes and the connection to vibrating compensate shall be in flexible tubing with announced covering.

A water trap is fitted in the fuel pipeline from the table to the engines.

The tank shall be fined with a suitable fill point filter in fuel gauge glass, "low fuel love!" alarm (girling an available and visible signal on the suitable and)

A manual state by pump, with sufficient length of cil registent hose ( and filter) to reach 2m beyond the door shall be supplied, for filling the float tent from 200 litre drums.

The interconnection in-set fuel piping shall consist of grade 2 copper tubes and the connection to vibiating components shall be in flexible tubing with armoured covering

#### 1.10 Governor

The speed of the engine shall be controlled by a governor in accordance with class A2 of BS 5514 of 1677 if not otherwise specified in the Tachmidal Specification

The permanent speed variation between no load and full load shall not exceed 4,5% of the normal shall not exceed 4,5% of the normal shall not exceed 10% External facilities must be provided on the engine to educat the normal speed setting by  $\pm$  5% at all loads also and rated load.

#### 1.11 Flywheet

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 BS 5514 of 1977.

#### 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.

The exhaust pipe shall be installed in such a way that the expulsed 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 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. It must be secured by Panges both sides of the well at the point of exit. These flanges must be clamped to the wall with buts through the well.

#### 1.13 Accessories

The engine court be supplied complete with all accessories, air and oil filters, 3 instruction manuals, spare parts lists, the first fill of all lubrication cito, fuel, atc.

### 2. Alternator

#### 2.1 General

The alternator shall be of the solf excited brush tera type, with enclosed ventilated crip proof housing and must be capable of supplying the specified output continuously with a temperature rise not exceeding the limits law deven in BS 5000 for roter and stater windings.

The alternator chall be capable of delivering an output of 110% of the specified output, for one hour in any pariod of 12 hours consecutive running.

Both windings must be fully impregnated for tropical climate and must have an oil resisting finishing variable.

#### 2.2 Regulation.

The alternator must preferably be self-regulated without the utilization 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 purventage to between unity and 0.8 lagging and within the driving speed variations of 4.5% between no-load and full load.

#### 2.3 Performance

The excitation system shall be designed to premote rapid volvage resolvery following the sudden application of the load. The voltage shall recover to within 5% of the steady state within 300 mili-seconds following the application of full load and the transient voltage dip shall not exceed 18%.

#### 2.4 Coupling

The engits and attemptor must be directly coupled by means of a high quality flexible coupling, agral and similar to the HOLSETT type.

#### 3. Switchboard

#### 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.

#### 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 study and chromium-plated cap note. Belf tapping screws shall be used in the construction of the board.

All pushbuttents, polici lights, control switches, instrument and control fuses, shall be mounted on hinged banels with the control wires in flexible forms.

The steel/year of the boards must be thoroughly contrated, primed with zinc chromate and finished with two coats of signal red quality entents or a baked powder epoxy coating.

Suitably rates ferminals must be provided for an above circuits and the control and protection circuits. Where cable lugs are suidd that is attail be ofmpod ento the cable strands. Surely ferminals shall be of the type to prove the pre-eding of cable strands. All terminals shall be clearly marked.

For the control soring, each wire shall be fitted sent a cable or wire marker of approved type, and removing of these markers must be above on the voiring diagram on the switchboard. Control wiring shall be run in PVC reading. The tranking shall be propeny fixed to the satisfaceard steelwork. Adhesives shall not be acceptable for the fixing of trunking or looms.

The automatic control and protection equipment shall be mounted on a separate easily replaceable small panel with printed circuits. The component shall mainly be the realid state" type. The importanting the equipment on the province that the penel chall be sealed when appropriation. However, other province control systems may also be considered, our realist be described in detail.

All equipment of the switchboard, such as contactors, residents, bushars, etc., shall have ample current can may capacity to bandle at facts \$10% of the atternator full load current.

#### 3.3 Protection and Assim Devices

All switchwas disastest be equipped with protection and starm devices as described below.

A circuit breather and an adjustable current limiting protection relay must be installed for protection of the allomator. The protection relay shall be a fine type with inverse time characteristics. The relay shall be use contactor to law use the afternator and stop the engine.

Protection (1910) on provided for exertoad, high include parature, low fubricating of pressure, much one in start-failure, and low water laws.

Individual receipt with reset positiod are required to give a visible signal and stop the engine with ranging the professive devices operation on standby small a such not be possible to recean the energy

The indicators and re-set pushes must be marked in English.

"OVERLOAD"
"TEMPERATURE HIGH"
"OIL PRESSURE LOW"
"OVER-SPEED"
"START FAILURE"
"LOW WATER LEVEL"

In addition two relays with reset pushes must be fitted giving and audible and visible signal when:

(a) The fuel level in the service tank is low. The reset push of this relay must be marked "FUELLOW" -

In addition, a tow-low level sensor must be provided. At this level the engine must stop to prevent air entering the feel system.

(b) The battery charger failed. The reset push of this relay must be marked "CHARGER FAIL" - "

This is also applicable to the engine driven generaled alternator.

All relays must operate an atarm hooter. A purchtation must be installed in the hooter circuit to stop the audible signal, but the fault indicating light on the control panel must remain through the fault has been rechified.

An on/off stirtish is not acceptable. After the first by needed accepted it must be re-solt automatically, ready for a further element.

The hooten must be of the continuous duty and the consemption type. Both booler and protection directly must operate from the battery

Potential from contacts from the relarm relay must be brought down to terminals for remote indication of elemn conditions.

A test pushbuilton must be provided to text all indicators lamps.

#### 3.4 Manual Starting

Each switchboard shall be equipped with two poshections marked "START" and "STOP" for manual starting and stopping of the sec.

### 3.5 Battery Staring Equipment

Each switchholdra shall be equipped with pattery shallping 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 changer must be fed from the mains. An origine driven elternator must be also a provided for diverging the battery while the set is operational. Failure of this elternator must also activous the partery changer failure give. It.

#### 3.6 Switchboard in struments

Each generating bet shall have als intentioned each pied as follows:

(a) One this is aguate dial volumeter reading the alternator voltage, against as follower

- (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. These instruments shall be supplied complete with the necessary current transformer.
- (c) One flush square dial vibrating type frequency mater, 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 mucibilis for the potential voltage circuits of the meters.
- (f) One flush square dial ampere meter suitably scaled for the battery charging current.
- (g) One hush square dial voltmeter with a spring traded poshbuffor or switch for the battery cultisue.

#### 3.7 Marking

All labels, marriags or instructions on the awtelegrap shall be in both official languages.

#### 3.8 Earthing

An earth ber must be fitted in the switchboard, to which all non-current carrying metal parts shall be boarded.

The neutral notice of the alternator must be solidly composed this bar by means of a removable first Goodled "EARTH" "AARD". 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.

### 3.9 Operation Selector Switch

A four position selector switch must be provided as the axitableard marked fAUTO", "MANUAL", "TEST" and "OFF" - "

With the selector on "AUTO", the set shall automationity start and stop, according to the mains supply being evailable or not.

With the scleats, on "TEST", it shall only be possible to start and slop the set with the pushbuttons built a 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 comparely disconnected from the automatic controls, for cleaning and maintenance of the engine

# 3.10 Automatic Change-over System

A fully automotic change-over system must be provided to isciate the mains supply and connect the standay set to the outgoing feeder in table of a mains failure and reverse this procedure on return of the matter.

# 3.11 By-pass Switch and Main leptator

The switchboard shall be equipped with an on-load isolator to isolate the mains and a manually operated on-load by-pass switch, which shall either connect the incoming mains to the automatic control gear or directly to the outgoing feeder. In the latter position the automatic control gear, including the main contractors, shall be isolated for maintenance purposes. It shall not be possible to start the engine except with the selector switch in the "TEST" position.

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 operated from the front of the compartment.

#### 3.12 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.

#### 3.13 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.

#### 4. Installation

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 and all power and control cabling. The sets and Boards are to be handed over in complete working condition.

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.

#### 5. Warning Notices

Notices, in both official languages, must be installed in the plant rooms.

The contents of these notices are summarised below.

- (a) Unauthorised entry prohibited.
- (b) Unauthorised handing of equipment prohibited.
- (c) Procedure in case of electric shock.
- (d) Procedure in case of fire.

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.

#### 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 steel drip tray must be fitted under the engine. The tray must be large enough to catch a drip from any part of the engine. In accordance with EIA requirements bunds walls etc must be provided to contain the base tank fuel amount.

#### 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 selector switch and pushbuttons on the switchboard. The set shall have the facility to interlock with the mains and the ATS system, It shall also be used on a manual basis and switched on for continuous operation.

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/switch shall be supplied and fitted to the changeover switchboard.

### 8. DRAWINGS

The successful Tenderer must, as soon as possible after receipt of the order, visit the site and map out the emergency power requirements and submit detailed dimensioned drawings of the installations and wiring diagrams of the plant and the switchgear and the power distribution requirements of each DB for approval before manufacture. One diagram shall be contained in a metal pouch on the side of the respective switchboard and all drawings shall be included in the manuals

#### 9. INFORMATION REQUIRED

Tenderers must furnish detailed descriptions and illustrations of the equipment offered and must complete the questionnaire following this specification. This includes drawings of the switchboard layouts and control diagrams.

Failure to submit any of the information asked for may disqualify the tender.

#### 10. GUARANTEE

The successful Tenderer will be required to guarantee the complete plant for a period of 12 months form the date it has been taken over by the Department in running order.

If during this period the plant is not in working order, or not working satisfactorily owing to the faulty material, design or workmanship, the Contractor will be notified and immediate steps shall be taken by him to rectify the defects and/or replace the affected parts on site, at his own expense.

All repairs under the guarantee shall carried out within 48 h of notification.

#### 11. MAINTENANCE

The successful Tenderer will be required to maintain the plant in good running order for a period of twelve months after the plant has been taken over by the Department. The full costs of this maintenance must be included in the tender price, inclusive of overheads and travelling fees. A part from the consumables as detailed below, the department shall not acknowledge any cost claims additional to this maintenance cost as tendered.

However, should the Contractor fail to hand over the plant in good working order on expiry of the specified twelve months, the Contractor will be responsible for further monthly maintenance until final delivery is taken.

Under this agreement the Contractor will undertake to arrange once per month for a visit to the plant by a qualified member of his staff, who shall:

- (a) Report to the Officer-in-charge, keeping the maintenance records, and enter into a log book the date of the visit, the tests carried out, the adjustments made, and any further details that may be required.
- (b) Grease and oil moving parts, where necessary.
- (c) Check the air filter and, when necessary, clean the filter and replace filter oil.
- (d) Check the lubricating oil and top-up when necessary.
- (e) After the plant has run one oil change for the number of hours stipulated by the manufacturers, drain the sump and refill with fresh lubricating oil. The reading of the hour meter on the switchboard will be taken to establish the number of hours run by the plant.
  - Under this heading only the cost of the actual oil used, shall be charged as an extra on the monthly account.
- (f) Clean the lubricating oil filter and/or replace the filter element at intervals recommended by the engine manufacturer, the cost of a new filter element to be charged as an extra on the monthly account.
- (g) Check and when necessary adjust the valve settings and the fuel injection equipment.
- (h) Check the battery and top-up the electrolyte when necessary.
- (i) Test-run the plant for 0,5 hour and check the automatic starting with simulated faults on the mains, the proper working of all parts, including the electrical gear the protective devices with fault indicators, the changeover equipment and the battery charger. Make the necessary adjustments.
- (j) Report to the Department and to the Contractor on any parts that become unserviceable through fair wear and tear, or damaged by causes beyond the control of the Contractor.

The Contractor on receiving the report, shall immediately submit a detailed quotation for the repair or replacement of such parts to the Department.

(k) Advise the Department when it has become necessary to decarbonise the engine and submit a quotation for this service.

(I) Top up the water of the radiator, if applicable.

Clean the plant and it's components.

Instruction of Operator

After completion of the installation and when the plant is un running order, the successful Tenderer will be required to instruct an attendant in the operation of the plant, until he is fully conversant with the equipment and the handling thereof.

Three copies of a maintenance fault-localising and operating manual are to be handed over the Department's representatives on site.

### 12 **TESTS**

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 may 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 BSS 5514, Part 2 and 3. The Department must be timorously advised of the date for the test.
- (b) At the site after completion of the installation, in accordance with Clause 12.2 of the Standard Conditions (form O.W.G. 379), forming part of this specification.

The resistance for the load and all instruments which may be required for the tests have to be provided by the successful tenderer.

Test reports of both tests as specified under (a) and (b) are to be submitted to the Department.

# SPECIFICATION FOR THE SUPPLY DELIVERY AN INSTALLATION OF AN EMERGENCY GENERATOR SET

# **SECTION 3 – TECHNICAL SPECIFICATION**

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#### **SECTION 3 – TECHNICAL SPECIFICATION**

#### General

Supply, deliver, install, commission, test and maintain an emergency generating set and all associated control boards and Distribution boards and electrics at the Bethuli Correctional Centres for DCS as follows:

# **BETHULI CORRECTIONAL CENTRE:**

- 1. Provide a new outdoor weatherproof and silenced, containerized 125kVA DA set (prime rated) with 24h diesel base tank (fitted with lockable fill pipe, and manual fill pump with hose for drum fuel supply) and rigid steel base frame, mount on new level 200mm high concrete plinth cast under this contract, provide ATS change over panel and cable to the local boundary board power supply and to the existing main LT board; a full fuel tank shall be included on hand over after all testing has been completed; set shall be weather proofed and silenced to residential standards and in compliance with all municipal and national by-laws. The sound level from the set, measured on site after installation of the set shall not exceed 65dbA @ 7 metres (all orientations) including the exhaust at full load
- Supply new control panel and ATS at the generator, run new LV supply from the existing site boundary board and from the generator to existing main LV DB.
- 3. Refurbish and re-equip the existing main LV board with new equipment and new circuit breakers ( coordinate all shut downs with the user to ensure that the DCS is not compromised when work is being done)
- 4. Label and paint all field DB face plates RED to indicate emergency power, provide internal legends and cable feed information for all DBs

These 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 existing plant room.

#### 2. Site Information And Conditions

### 2.1 Location

The site is Bethuli DCS, Free State Province.

#### 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 : 1300 meter

b) Maximum ambient temperature :40 °C

c) Maximum ambient humidity at lowest temperature : 80 %

d) Minimum Temperatures: -5deg C

#### 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 : 125 kVA rating (after de-rating for altitude and

temperature)

Power output on site (0,8 power factor) 100.00 kW =kVA rating X 0.8

Frequency : 50Hz
Fault Level : 10kA

The generating set is required to feed inductive loads consisting of electric motors, fluorescent light fittings and UPS units.

The generating set shall be capable of accepting 75% of the specified site electrical output in one step. The 100% load acceptance shall not exceed 15 seconds.

#### 4. Switchboard/Control Panel Unit

All switch- and control gear shall be rated for a fault current level of 10kA.

The switchboards/control panels unit shall be a free standing floor mounted type in the plant rooms and suitably fixed on a steel frame in the in the diesel set enclosure.

Existing DB boards shall be isolated and removed and replacement boards installed in the same positions and reconnected to the existing circuits wherever possible. Where new circuits are required they shall be supplied and installed in accordance with the general technical specifications

#### 5. Cables

The contractor will be responsible for all electrical cable connections associated with the complete generating set installation.

#### 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.

## 7. Alternator

The Alternator shall be of the low harmonic type.

#### 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.

#### 9. Generator Room/Platform

An external level, reinforced concrete plinth is to be cast for the generator set complete with cable sleeves and diesel containment bund (all to the DPW standard details – available from DPW)

#### 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 <u>remote alarm panel</u> 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 2,5mm² x 4-core PVC SWA PVC cable will be supplied, installed and terminated by others between the Generator Panel and the Security 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.

#### 11. Generator Control and Test Switches

These shall be supplied with the Generator control panel and shall incorporate all automatic and manual operating and testing requirements for the sets; they shall be fully and clearly labelled

#### 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.

#### 13. Completion Time

The Generator Set is required to be commissioned in conjunction with the agreed programme signed off by the user Client

#### 14. Inform

The successful tenderer shall inform the Engineer when the set is ready for inspection and testing at the manufacturers works and after installation on site once the sets are commissioned and operational

#### 15. Fuel Supply Tank

The fuel tank shall be base mounted. The tank shall have sufficient capacity for the generating set to run the engine on 80% load for a period of <u>24 hours.</u>

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 shall be manufactured from black mild steel with a thickness of not less than 2mm.

# SPECIFICATION FOR THE SUPPLY DELIVERY AN INSTALLATION OF AN EMERGENCY GENERATOR SET

# **SECTION 4 – SCHEDULES OF TECHNICAL INFORMATION**

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# **SECTION 4 – SCHEDULES OF TECHNICAL INFORMATION**

# 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 :  a) In b.h.p. b) In kW      |         |
| 5.  | b) In kW  Percentage de-rating for site conditions, in accordance with BS 551.4  a) For altitude |         |
|     | b) For temperature c) For humidity 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 I/h of alternator output at :         |         |
|     | a) Full load<br>b) ¾ load<br>c) ½ load   |         |
|     | NOTE:  |         |
|     | 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?   |         |
| 21. | Method of starting   |         |
| 22. | Voltage of starting system   |         |

| NO  | ITEM  | REMARKS |
|-----|---|---------|
| 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 %  |         |
|     | a. Temporary<br>b. Permanent  |         |
| 31. | Minimum time required for as assumption of full load in seconds                 |         |
| 32. | Recommended interval in running hours for :                                     |         |
|     | a. Lubricating oil change     b. Oil filter element change     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  | N/A     |
| 40. | Noise level at tail of exhaust pipe in dBA                                      |         |
| 41. | BMEP (4 stroke) at continuous rating (kPa)                                      |         |
| 42. | % Load acceptance to BS 5514, Part 4, with 10% transient speed drop             |         |

# 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 0,8 power factor  |         |
| 8. | De-rating for site conditions             |         |
| 9. | Input required in kW                      |         |

| NO  | ITEM  | REMARKS |
|-----|---|---------|
| 10. | Method of excitation                                      |         |
|     | Efficiency at 0,8 power factor and :                      |         |
| 11. | a) Full load<br>b) ¾ load<br>c) ½ load                    |         |
| 12. | Maximum permanent voltage variation in %                  |         |
| 13. | Transient voltage dip on full load                        |         |
| 14. | Voltage recovery on full load application in milliseconds |         |
| 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  |         |

# 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   |         |

| NO  | ITEM  | REMARKS |
|-----|---|---------|
| 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 :  a. Change-over equipment b. Mains on load isolator c. By-pass switch d. Circuit breaker to outgoing feed |         |
| 30. | Is manufacture of switchboard/control panel to be sub-let?  |         |
| 31. | If yes, state name and address of specialist manufacturer   |         |

# 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 |         |

# 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 |         |

# 6. Deviation from the Specification as An Alternative (State Briefly)

| NO | DESCRIPTION |
|----|-------------|
|    |             |
|    |             |
|    |             |
|    |             |
|    |             |
|    |             |

# 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  |         |

#### SCHEDULE OF IMPORTED MATERIALS AND EQUIPMENT TO BE COMPLETED BY TEMPERER

The Contractor shall list imported items, materials and/or equipment which shall be excluded from the Contact Price Adjustment Provisions and shall be adjusted in terms of currency fluctuations only. Copies of the supplier's quotations for the items, materials or equipment (not higher than the Contract rate as listed below) should be ledged with the Representative/Agout of the Department of Public worth within 60 (sixty) days from the date of acceptance of the tenders. No adjustment of the contractor's profit, local VAT amount, discount, marketip, handling costs, etc. shall be offered.

| ITEMS | VATORIA/EQUIPMENT | TAV ƏMGƏLOXS (R) CUAS  |
|-------|-------------------|--|
| 1     |                   |  |
| 2     |                   |  |
| 3     |                   |  |
| 4     |                   |  |
| 5     |                   | entr <sub>a</sub> transfer for the second of the secon |
| 6     |                   |  |

#### FORMULA:

The net amount to be added to or deducted from the contract ment

$$A = V \times \frac{Z}{Y}$$

 $A = \text{the amount } (R) \Rightarrow A = \text{the amount}$ 

V = the net amount (R) (Coupled's Quotation) of a compound for a (Material or Economics)

Y = exchange rate of a single global of render substantion.

Z = exchange rate change issta of payment.

# SPECIFICATION FOR THE SUPPLY DELIVERY AN HISTALLATION OF AN EMERGENCY GENERATOR SET

# TABLE OF CONVEYING

# <u>Clause</u>

| 1. | Preliminaries                         |
|----|---------------------------------------|
| 2. | Summary of Secret 1                   |
| 3. | Schedule of Supplementary Information |
| 4. | Bill No 2 to 6                        |
| 5. | Summary of Section 2                  |
| 6  | Final Quartery                        |

#### RC

#### **FRELIMINARIES**

#### **GENERAL**

Should there be any classepancy between these Prelimination and the Conditions of Contract (PW677), the former shall take precedence

These Preliminaries are aviided into Parts A, B and C

Part A lists the clauses of and refers directly to the Conditions of Contract (PW677). Some of the clauses have been excanded and the additional terms are secogainst each relevant clause.

Part B contains standard preliminary items, some of which was have been marked NA. (not applicable)

Part C contains spaceto preliminary items which apply to this contract except where marked NA (not applicable)

#### SCHEDULE OF SUPPLEMENTARY INFORMATION

A Schedule of Supplience fory Information is included about it is Collection of the Proliminaries, containing supplience tery information to items A10, A20, 304, 81.2, 81.5, 81.6 etc.

#### PRICING OF PRELIMBING

For the purpose of adjunct and of the Preliminaries in terms of the A23 hereof the rale entered in the rate coloring for each item in the Proliminary's, stort be divided into three categories, viz: Fix. it. Years Related and Time Related, and the respective endounts entered in the spaces provided under each item:

Where the rate entace \$1.000 a rate column for any factors on the consultable of not distance into the three categorics, the rate shall be decorated to be a consultable except for clauses in A1, A2, A8, A14, A2000 by 102, 826 to A29, B10.1 to 0.000 B00.0 a fixed action B0.1. Biolin. Bi

#### PART A

# CONDITIONS OF CALL AND ST

The conditions of contract chalf be the Conditions of Contract physics? ) of the Department The contractor is referred at the above mentioned docume a little and intent and meaning of each clause referred to under the following headings.

#### A1 DEFINITIONS

Clause 1

Fixed: Related: Renational Renations Renations

# A2 DRAWINGS, SPECIFIC TO CLAS AND BELLS OF COMPETERS

Clause 2

#### Priced Bills of Quantalism

The contractor shall depict his priced bits of quantities with a so greatity surveyor stated on the front cover beauti

#### Rates

Imbalanced, unrease saint as unrealistic rates for any flam, we included of the cost of one item in the rate for any secretary indiretes or no charge for dead at lear be aboved. Where appropriate orders for similar froms in the values shall are of the bills of outsides should be the same.

The Director-General charles of liberty is stated such adjusts consist individual rates, whether they are outstands made interest rates or rich as will also solves, discrepancies of which he considers as a properties of unreasonable of the charles without altering the tender amount.

WCS No

|     |                                    | or all items shall be deemed to<br>d Tax (VAT) for the execution<br>tract (PW677) |  |  |
|-----|------------------------------------|---|--|--|
|     | Fixed:                             | Value <b>Relat</b> ed:  | Time Related:  | itom   |
| А3  | CONTRACTOR'S                       | OBLIGATIONS   |  |  |
|     | Clause 3                           |   |  |  |
|     | Fixed:                             | Value Related:  |  |  |
| A4  | CONTRACTOR'S                       | PERESSENTATIVE  |  |  |
|     | Clause 4                           |   |  |  |
|     | Fixed:                             | Value Related:  | How Reinled:   | ខែការ  |
| A5  | EMPLOYEES TO                       | OS BERICHENT  |  |  |
|     | Clause 5                           |   |  |  |
|     | Fixed:                             | Value Related:  | See Feisland   | Strain and the second s |
| A6  | MATERIAL AND                       | Vector to conform to or   | ( <b>44</b> 50 1 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5   |  |
|     | Clause 6                           |   |  |  |
|     | Fixed:                             | Virtue Related:   | The state of the s | i i i i i i i i i i i i i i i i i i i  |
| A7  | LOCAL AND OT                       | Beg ni veg <b>ratie</b> e   |  |  |
|     | Clause 7                           |   |  |  |
|     | Fixed:                             | Veue Related:   |  | A3613  |
|     | Note: Provisional quantities       | sunmous dr <mark>ing such rele</mark> vent.                                       | กรา (1964 กระบบ <mark>เลียต์ <b>ดังจะเพียงก</b>ะ)</mark>   | ar ma Nilgoti  |
| A8  | SETTING OUT O                      | PORT POR <b>NS</b>  |  |  |
|     | Clause 8                           |   |  |  |
|     | Fixed:                             | (%.0e Roisied)  |  | 1.2.2.2  |
| A9  | NOTICE OF GOV                      | METER ARTURK  |  |  |
|     | Clause 9                           |   |  |  |
|     | Fixed:                             | Thee Related:   | <u> </u>   | , <sup>2</sup> , <sup>4</sup> , 1, §   |
| A10 | MATERIAL AND                       | OCCUSION SETHEPROPE   | TOY OF THE CHICKON GE  | PHRAL  |
|     | Clause 10                          |   |  |  |
|     | Contract (PW677 of a constitutum : | eterial and goods referred to<br>() What we deemed to heve this<br>percensisting  | v passes to the Dimittor Gen   | arei by artis  |
|     | Fixed:                             | Value Related:  | <u></u> Mose Reasedt <u></u>   | # X712.3 m   |

| A11           | PLANT TO BE THE PROPERTY OF THE DIRECTOR-GENERAL |  |  |  |  |
|---------------|--|--|--|--|--|
| <b>&gt;</b> , | Clause 11  |  |  |  |  |
|               | Ownshall poss                                    | be deemed to hav<br>essorium   | o only passed to the Di  | i) of the Conditions of Contra<br>rector-General by virtue of a<br>Time Raisted:   | constituium  |
| A12           |  | RY TO THE WOR  |  | and the comment of the first of the second o | PACE A   |
| AIZ           |  |  | , Ç  |  |  |
|               |  | se 12  |  |  |  |
|               | The paid remo politi                             | for by the Directors  Ite of any risk or or  cal riot insurance prance Association   | Seneral that is the result<br>administration in the<br>solicy assued by or on b  | or destruction of the works<br>whether thed, or indirect or<br>Republic of South Africa by<br>chaif of the Touth African S<br>Time (Aeloted)   | proximate or<br>rineans of s<br>pecial Risks   |
| A13           | INJU   | IRY TO PERSONS   | UR PROPERTY  |  |  |
|               | Clau   | se 13  |  |  |  |
|               | F  | Fixed:   | igh e Related:   | THE STATE  | 16.77  |
|               | Note   | e:   |  |  |  |
| A14           | 2) 3) If so for the wither evident in CES Class  | tained against and occurrence (characteristics) and against and against and against commencing the mountained authorities and against authorities and against authorities and against authorities and against and record attroads, paving he occurred or disturbed the contract of the contractor shall be contractor.   | could of support to adjoin 1877.  I control of 3 will still be apply a ruperties not be specified not be specified not be specified and the control of support to a visit of an insurance consisted an insurance consisted an insurance consisted and fences and fences of the control of take levels and its sound with the Repressional and with the Repressional and with the Repressional and the control of the first and series of the control of the premiums and replay the premiums and replay the premiums and replay the premiums and respectively. | cloining the consider (Clistice 1) all amenges with the ewiters of amenges with the ewiters mpany for an investigation of immels, for any investigation of the chart fewers and fewers which bear one of the chart of the contract the charge price and the chart of the country shall be owners. The chart of t | of any single sinst removal ainst removal acres to said the said times are of enait he to deced and econd as true acres to a Contract ecoval who same with timesiar. |
|               |  | and a second sec | a second of the second   | Total Carlo  |  |

| A15 | PRIME COST ITEMS AND PROVISIONAL SUMS   |  |                     |  |
|-----|---|--|---------------------|--|
| ì   | Clause 15   |  |                     |  |
|     | Adjustment of Prime Cost Amounts The contract sum will be adjusted by the omission of the addition of only the sum actually paid for the goods by the co-   | nicacion   |                     |  |
|     | Note: See items \$7.4 and \$7.2 hereof for definition and nominated and/or selected subcontractors executing work sums  | adjustment of attenda<br>efowed for under pro  | ince on<br>visional |  |
| A16 | NOMINATED SUBCOMMENCERS   |  |                     |  |
|     | Clause 16   |  | 1                   |  |
|     | Fixed: Value Related: Pince   | . Malat <b>ed</b> :  | kara                |  |
| A17 | FACILITIES TO OTHER CONTRACTORS   |  |                     |  |
|     | Clause 17   |  | •                   |  |
|     | Fixed: Yakus Related: That  | e sa wadi  | )!syyy              |  |
| A18 | Note: See items 87.1 and 37.2 hereof for definition and any contractors executing such not provided for in this contract VARIATIONS   | nnard of attendance o  | na odver (          |  |
|     | Clause 13   |  |                     |  |
|     | Variations For purposes of this blacks include any zero tions ordered by the Control General  | in ter omissions and s   | substtu-            |  |
|     | Calculation of the Mount of Mork for the Limit of 20%. The amount arising the relative Contract Price Adjust is Mich between provisional terms and accepted tender amounts nominated and/or sensited to be be be between added in second of the limit of 20%.  Fixed:  Value Related: | converis to be exected as the value of the v | ulad as<br>of work  |  |
| A19 | DAYWORK   |  |                     |  |
|     | Clause 19   |  |                     |  |
|     | Fixed: Newse Related: Down  |  |                     |  |
| A20 | COMMENCEMENT AS COMPLETION  |  |                     |  |
|     | Clause 20   |  |                     |  |
|     | Inclement Weather Replace the words emorphismally inclement weather in inclement weather don't packet no work is possible.  | 06.103 20(4) With the  | a viorda            |  |
|     | Fixed: Makes Related: Thris   | Melakt st  | (terr               |  |
|     | Note: The contrast hand shall be as sloved in the Information   |  |                     |  |

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|     | FIRST AND FINAL DELIVERY  |                                       |  |  |                                    |  |
|-----|---|---------------------------------------|--|--|------------------------------------|--|
|     | Clause  | 21                                    |  |  |                                    |  |
|     | Fix   | ed:                                   | Value Related:   | Time Related:  | Itom                               |  |
|     | the Fin   | al Delivery Card<br>his liability for | floate <mark>may be</mark> issued (we)v  | ed that for contain portions of months for some other per iks) after the data of the Fl  | lod depend-                        |  |
| A22 | CONTR   | RACTORES LINE                         | Bility in Respect of D   | gent goth gene uses, che con<br>Eve tien zwo E. c. n. n.<br>Even use Super (us.) 1. T. n.  |                                    |  |
|     | Clause  | 22                                    |  |  |                                    |  |
|     | Fix   | ed:                                   | Value Related  |  | Yara.                              |  |
|     | the wo  | rks, where so st                      |  | act that his fature for certain<br>s, may be for fishive mooths<br>at Dafively Condicate   |                                    |  |
| A23 | PAYM  | ENT                                   |  |  | !                                  |  |
|     | Clause  | 23                                    |  |  | •                                  |  |
|     | Retention Metals  Notwithstanding are provisions of clause 20(2) (a)(i) of the Conditions of Contract (97/377) retention money so the calculated on the individual centrum, channes (Value-Added Tax excluded) for the condector, nominated and a soluction substitutions and the maximum retention money shall in each base and current 10% of our claus book per amount (Value-Added Tax courses) |                                       |  |  |                                    |  |
|     | THE FOLLOWING GERBINONS INCLUDED A CLAUSE 2019 11. ()   |                                       |  |  |                                    |  |
|     | The ite<br>adjustr<br>those I   | nent shall pact.<br>Isted heromon     | usces shall be edjested<br>etc my further adjustment   | In the more large caregories except one continues the except one of the receiver (% Continues the receiver)                      | : follow their !                   |  |
|     | 1   | Fixed i.e. 252.                       | supuni <b>which shel</b> andali si ve  | alv o  |                                    |  |
|     | 2.  | of the Woulder a of conduct. 2        | a nomp <b>ared to</b> the combodi<br>top - <b>adjustme</b> nt - playtent   | be varied to proportion to do<br>ours (which a medicing remodes<br>a, gard a distribe typoselood<br>real for addinationeds and N | a with pool ().<br>I sain a litera |  |
|     | 3.  | Time Polisis is contract justice      | Hell wa <mark>amo</mark> bat willieth will it<br>fill wa <b>35 day</b> e wa yon ber<br>far alon <b>resul</b> te filosoft wa foth | i ua medikali — puopromen ta S<br>redino il la orini kidi periodi la<br>pultura menerali si nem                                  | estrutea<br>escusti d'eys          |  |
|     | 3.1   |                                       |  | rad by 4 × 1 × 1500 of the point   | region !                           |  |
|     | 3.2   | Delay in westle                       |  | зеверы Пруулганы проголог  | om Hamile of [                     |  |
|     | 3.3   |                                       |  | minn constay to by the Object  | settement                          |  |
|     | 3.4   | Provided that                         |  | wespunsie not the 616 to the<br>Longer put of longrisueh 6   |                                    |  |

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| pr<br>shal     | oportional amount<br>I be included in ea | artes in Progress Paymer<br>in respect of the prelimina<br>ch progress payment takin<br>filhe bilis of quantities, as | iries or the adjusted preliminaring into accessing the priced items | ies, if any,<br>s within the |
|----------------|--|---|---|------------------------------|
| 1.             | In respect ು ೯                           | in a Rela <b>ted amounts</b> :  |   |                              |
| 1.1            | The 35 day no                            | charge period before hand   | ding over of the late   |                              |
| 1.2            | A reduced cha                            | rge for extensions given fo   | or periods existe handing over                                      | of the site                  |
| 1.3            | The constructs                           | on period including any lat   | er anticipated completion date                                      |                              |
| 1.4            | period change.                           |   | eyment certificates when the  | construction                 |
| 2.             | ·  | ie dixed value amounts:   |   |                              |
| 2.1<br>2.2     |  | wood that the relevant expe   | ayment of which shall be monditures nave been made                  | ade to the                   |
| 2.3            | A final or elses                         | so atsimoent charge   |   |                              |
| 3.             | In respect of the                        | o Value Related rimounds  |   |                              |
| 3.1            | adjustment of                            | Visite Related amounts  | uotment si Isradonimaries di<br>Timo Paratedi                       |                              |
| \24 <b>DEF</b> | AULT BY COME                             |   |   |                              |
| Clau           | ise 24                                   |   |   |                              |
|                | Fixed:                                   | Value Related:  | Table for the man   | <u> Par</u>                  |
| Note<br>Sch    | e: The penalty acceded                   | Cofeet by the contractor<br>Acting information  | spak be em circad as datam  | nined in the                 |
| .25 <b>DEL</b> | AYS BY DIRECT                            | 09-06-4 <b>88AL</b>   |   |                              |
| Clau           | ıse 25                                   |   |   |                              |
|                | Fixed:                                   | Vrik = Related:   |   | ils:"1                       |
| \26 <b>SEC</b> | UESTRATIOD.                              | THE TION, INSOLVER  | omario de los amanas.   |                              |
| Clau           | ıse 26                                   |   |   |                              |
| The            |  |   | spourche of China or despite.                                       | walving his                  |
|                | Fixed:                                   | /slow <b>Ralaia</b> d∙  | Gillians - Troples fronts   |                              |

| A27 | DISPUTES  |                            |               |         |
|-----|-----------|----------------------------|---------------|---------|
|     | Clause 27 |                            |               |         |
|     | Fixed:    | Value Related:             | Time Related: | _ item  |
| A28 | CANCELLA  | HON BY BIRECTOR-GENERAL    |               |         |
|     | Clause 28 |                            |               |         |
|     | Fixed:    |                            | Time Related: | _ itom  |
| A29 | AMENDMEN  | T OF CONSTRONS OF CONTRACT |               |         |
|     | Clause 29 |                            |               | :       |
|     | Fixed:    | Value Related:             | Tota Pelated) | _ Yearn |

| 1    | PART B   |
|------|--|
|      | STANDARD PRELIMINARIES  The tenderer's attention is drawn to Part C hereof for specific preliminaries which apply to this contract   |
| B1   | DOCUMENTATION  |
| B1.1 | DOCUMENTS  The Conditions of Contract (PW677), Articles of Agreement (PW193) and Deed of Suretyship (PW159) and Guarantee for the Execution of a Contract (PW 822) are available for issue to or for inspection by the tenderer during office hours at the head office or the regional office of the Department. Copies of the State Tender Board General Conditions and Procedures (8736) are available on application from the Ohief Director: Procurement Administration, Private Bag X49, Preforia, 0001  Fixed:  Value related:  Time mixied:  Rem  |
| B1.2 | CONTRACT DRAGNEGS  The drawings issued with the tender documents do not complise the complete set but serve as a guide only for tendening purposes and for indicating the acope of the work to enable the tenderor to accurate himself with the instere and except of the works and the manner in which they are to be executed.  Should any part of the drawings not be deady intelligible to the tenderer he shall, before submitting his tender, abbaic clarification in writing from the Reguese mature/Algert Fixed:  Value related:  Val |
|      | Note: See the Subuch is the Complementary information for the contract drawings  |
| B1.3 | BILLS OF QUARTETIES  The pages of these over oil quentities are numbered to a reclassive line tenderor shall, before submitting his tendor, oned for numbers of the pages and chould are be missing or duplicated, or the reproduction be indistinct, or if any devote each the full intent or meaning of any devote in any, or these hills of granuftes in reach our obvious errors, the tenderer shall obtain a climative rewriting from the Climatic followers. The text of these bise of quantities and other receives as a propared by the Representative/Agraph all be adhered to and no situations accurate, profession or addition thereto by the tenders (NA) be recognised.  Fixed:  Value related:  The related is a related in the related i |
| B1.4 | PROVISIONAL 200.00 COUANTINES  Where reference is made in the continue dation to bein of quenties it shall be taken as referring to these Ployid and Bills of Quantities.  All quantities are modulational, are an indication of the executed and type or work to be executed and have been incerted in order to obtain connective landers.  All work carried out a were his contract shall be reason of as a valued at schedule reason in accordance with the Conditions of Contract  Fixed:  [Value related]  [Each Conditions of Contract  [Conditions of Conditions of Contract  [Conditions of Conditions of Contract  [Conditions of Conditions o |
| B1.5 | GENERAL PREAMAILES The document Specification of Materials and Methods to be Used (PYV374) is obtainable on request from the head office and of regional offices of the Department, and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and remerible to be used.  Fixed:  Value related.  The sharefeet:  Ram   |

Note: See the Schedule of Buoplementary hitchestion land a solution which is applicable.

| B1.6 /    | STANDARD SYSTEM OF MEASURING BUILDING WORK Except where stated otherwise or where it is clear from the contents of the measured items these bills of quantities have been compiled in accordance with the Standard System of Measuring Suitching Work issued by the Association of South African Quantity Surveyors  Fixed:  Walue related:  Timo related:  Item   |
|-----------|--|
|           | Note: See the Schedule of Supplementary Information for the addition which is applicable   |
| B1.7      | DEFINITION OF ARRECTED OR SELECTED  The term "approved". "directed" or "selected" shall mean supposed, directed or relected by the Representative/Agent  Fixed: Value related: Time related. Sem   |
| B1.8      | TRADE NAMES  Wherever a trade name for any product has been described in the bills of quantities, the tenderer's attention is drown to the fact that any other order of equal quality may be used subject to the reliable approval of the Representative being obtained prior to the closing date for submission of tenders. If prior written approval for an alternative product is not entained, the product described shall be deemed to have been tendered for  Fixed:  Value related.  Fixed:  Value related.  Value related.   |
| B1.9      | PROVISIONAL REPORT  Work described as Provisional in these bills of quartaties of an increasured and valued at schedule rates and in covardance with the Conditions of Condition 2017/19/17/19/18/19/19/19/19/19/19/19/19/19/19/19/19/19/  |
| B1.1<br>0 | Upon receipt of cleaning of large for any work the copen of the properties that work in hand, ascertain that the dimensions given on the large that the correspond who has dimensions of any work already built. In the event of the control and alteration, as no dain work already built the discusses shall immediately be control on alteration, as no dain for extra work will be entertained in this respect.  Fixed:  Side related:  Side of the control of the c |
| B2        | THE SITE   |
| B2.1      | VIEWING THE \$7.00.  The tenderer shall trist the site and make himself trist opiny acquainted with the conditions under which the works are to be execused, the months of access to the site, the nature of the site, the accretion of the roads and got and admenters which may influence the pricing of a contract.  The contractor will but the showed to extend his operations are different indicated on the drawings.  Fixed:  The process of the site of the site of the roads and got are also as a motion of the site. The contractor will be also accepted to the drawings.   |
| B2.2      | BOUNDARY BE ACCOUNTY  The boundary become of the site will be pointed out by the characentative/Agent to the contractor who often agent a written acknowledgement the after before commencing operations. The contractor shall maintain the become disturbed or lost resurveying should they become disturbed or lost  Fixed: Value related: Through them  |
| B2.3      | ADJOINING PROPERTIES  The contractor shall he are as own arrangements with our explaining properties in order to execute this visible.  Fixed:   |

| B2.4 | UNKNOWN SERVICES hould the contractor encounter any existing services such as underground cables, pipes or sewers during the execution of the works he shall notify the Representative/Agent  |
|------|---|
|      | immediately and suspend all affected work in the immediate vicinity until instruction to proceed has been given by the Representative/Agent   |
|      | Fixed: Value related: Time related: Item  |
| B2.5 | PROTECTION OF TREES AND SHRUBS  Only those trees and shrubs indicated as such on the drawings shall be removed or cut back. The remainder of the trees and shrubs shall be left undamaged Fixed:  |
| B2.6 | ARTICLES OF VASIOR  Any relics, treasure or other articles of value found on the site, shall be handed over to and remain the property of the Director-General who will be the sole arbiter of what consideres an article of value.   |
|      | Fixed:  |
| ВЗ   | MANAGEMENT OF THE CONTRACT  |
| B3.1 | PROGRAMMING OFFICE WORKS  The contractor short, within one month of the site being handed to him, submit to the Representative/Agona's detailed program and supporting deputierisation for this execution of the contract including the work of oil nominated ender helicated subcontractors and other contractors engaged by the Director-General, representing the duration of detagated of work in sufficient notice to enable the Representative/Agona's assess the progress of the works at all times to comparison who the program. The contractor shall, in compliang the program, consect with the normalized enables as shall enable to be added and the program and shall essentiate organismost of any Program and all Works (phesing) restor where applicable.  The contractor shall enablement the program and shall engaged if a virtic charles the program and subjecting documentation that be a reached for first use of the Representative/Agona, or mosted and/or selected subnorm of an and other contractors. The submission to the Representative/Agona, or mosted and/or selected subnorm of the contractor.  The submission to the Representative/Agona, or most be of the contractor.  The submission to the Representative discontractor of his responsibility for ensuring amonds benefits for or the contractor.  Fixed:  Value related  The submission |
| B3.2 | MANAGEMENT CREATIVORKS The contractor chell be responsible for managing the sequence of the works in such a manner that the subsequent outling or patoning of tibiate is safe a evoided. He should obtain all necessary particulars of subcontractors' and other contractors' work (intercut), so that provision for recessary characters, holes ato may be made.  Fixed:  Value related:  The situation of the works in such as the provision for recessary characters.  |
| Б3.3 | PROGRESS MERROLOGY Regular progress that tings will be held either monthly to an inay be necessary and chall be attended by the contractor. Parties other than the contractor shall not ahead the meetings unless oppositioally requested by the Representative/Agent to do so. The Representative/Agent will keep and distribute minutes of the meetings  Fixed:  Value related:  Thus related:  item  |

| B4   | MATERIAL AND WORK  | MANSHIP   |  |  |
|------|--|---|--|--|
| B4.1 | required. Should the bills   | ce orders timeously for<br>or quantities be used for  | or materials or special articor ordering materials, this sha   | all be entirely  |
| B4.2 | specimens of colours as who may reject all maler   | ish at his own cost sucl<br>may be called for by t<br>al. workmanship, etc no   | HIP n samples of materials, work he Representative/Agant for t corresponding to the approv   | his approval  <br>red samples  |
| B5   | TEMPORARY WORKS  | AND PLANT   |  |  |
| B5.1 | on completion of the viscreens, barriers, goard lifts, splayed company, se for the enclosion.  | dide, erect, after as nec-<br>yorks suitable hoarding<br>galling, access gates, o<br>gened ends, etc as indi-<br>decks and the protection   | essary, respect to remove and gs. complete with gantries, overed complete, steal sectioned on the collection and control of the confortal and to the collection.   | fans, safety ions at crane as necessary faction of the   |
| B5.2 | sheds for the property   | nos of materials  | ye en com la son of the works  | i  |
| B5.3 | the exclusive use of the suitably insulated action floor, desk, chair, ward office shall be ker than a                                 | Distriction and remove Representative/Agent, Variated, provided with the stool, drawing bosings of the stool | ve en consider in of the motivation of the motivation of the motivation in the constant of the motivation of the constant of t | ign internally,<br>with bearded<br>iravings. The   |
| B5.4 | the works a notice seem<br>boarding with flat secon<br>and projecting 12mm for<br>securely fixed to noord<br>supporting structure 3.55 | 4 Lize 3 x 3m as type in the face and with edging and issue of boarding and the where hearding is printed or tubular peats are taken wide dividing income.  | ed, instituti - et o remove im<br>Drawing Gren 1931 construct<br>ng been Trans I not elt rount<br>rounded of 1931 order The b<br>ovided for 1931 order institut<br>nd breces 113 en beck to be<br>is obec pack 113 morting she   | ed of suitable a outer edges coard chell he ingle suitable painted ivory   |
|      | Subcontractor's house du of the Representative (%)   |   | dion that size subject to the wr   | itten approvot   |
|      | Fixed:   | Velue related:  | The spetch   | i de la companya della companya della companya de la companya della companya dell |

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| B5.5 | ADVERTISEMERTS    Ivertisements on the hearding or elsewhere or   written approval of the Representative/Agent   | n the site will be allowed s   | ubject to the   |
|------|--|--|---|
|      | Fixed: Value related:  | Time related:  | itemi   |
| B5.6 | PLANT AND SCAFFCLE/MG  The contractor shall provide, maintain and rem scaffolding necessary for the execution of the world.  |  | all plant and   |
|      | Scaffolding will not be permitted to be erected from   | n beildings on adja <mark>cent</mark> prer   | nises   |
|      | Fixed:Value related:   |  | item  |
| B6   | TEMPORARY SERVICUES  |  |   |
| B6.1 | PROVISION OF WAS ERROR THE WORKS  The contractor shall provide all water necessary all temporary plumbing, rumoving same and making the contractor may use water free of charge from obtain permission from the Representative/Agent the existing supply to made, which shall be a completion of the works at the contractor's expension the contractor's expension of the works at the contractor's expension the contractor's expension the contractor's expension of the works at the contractor's expension the contractor of th | ng good on completion of the fine existing supply if available or same upong if available or same upong if available or same upong or of a congress or same and all coots the congress or same and all coots the | e works<br>able. He shall<br>r extension of<br>ade good on<br>an insufficiant<br>hat may aribe        |
| B6.2 | PROVISION OF FREED RECITY AND LIGHTFULCE The contractor shall provide all electricity and only of the works, including all temporary installation a completion of the marks.  The contractor may use the existing power sup obtain permission, we make Representative/Agent the existing supply so made, which chall be a completion of the marks at the contractor's expen- The contractor size factors for the risk of fathers supply, in which case he shall make also own or shall be for his ecologic.  Fixed:  Value related:  | onto enterto globale and ma<br>ply free in the right if availa-<br>bettra any connection to a<br>attention to have and in<br>the electrical in paly or of<br>rangements a time all costs the                     | akinu yaadi an<br>ikie. He shell<br>restendian of<br>sas yaadi nn<br>en insultiolaat<br>nat may erise |
| B6.3 | PROVISION OF TELEPHONE  The contractor that involves, maintain and renter on site for use by the restorus engaged upon the make his own arrangements regarding recover making them  Fixed: [Maina reinted]   | works the sit costs relate<br>ng the unusual cultgoing as  | d thereto and<br>Us from those  |
| B6.4 | PROVISION OF Contents  The contractor shall provide, maintain in a thorous on completion of the provide proper toilets for the contractor with the permitted the use of the such facilities are reserved for specific perso facilities in a thoroughly clean condition and marrials.  Fixed:  Value related:   | ise of the rout organisting in the sife avisating in the Cookides if avins. The promise shall in a good art, compage at his or   | allable unvess<br>naintain such<br>wn expense   |

| B7   |                     | NDANCE ON NOMINATED AND/OR SELECTED SUBCONTRACTORS AND ER CONTRACTORS   |    |
|------|---------------------|---|----|
| B7.1 | Gene                | ral Attendance shall, without in any way limiting the meaning and interpretation of, include the following services to be rendered by the contractor to nominated or selected subcontractors or other contractors engaged by the Director-General:  Access to the site and to places where the work is to be carried out, the use of ordinary scalleding and the use of any temporary cranes and personnel hoists erected by the contractor for his own and his subcontractors' use. The provision of water and lighting and electrical power to the place where work is to be carried out excluding water, fuel and power for commissioning of installations. The provision of an area for office accommodation, temporary workshops, and for the storage of plant and materials. The use of erected scaffolding belonging to the contractor in common with others having the like hight whilst it so remains erected upon the sits. |    |
|      | 6.                  | The use of the circ telephone   |    |
|      | 7.                  | Making good after nominated another selected subcontractors and a her contractors   |    |
|      | 8.                  | Co-ordinating the main contract work with that of the positionated and/or selected subcontractors who other contractors  Fixed: Value related: War islated: War   |    |
|      | Note<br>sele        | e: Items are provided elsewhere for pricing relegioned on nemigrated andic<br>cted subcontractors and other contractors   |    |
| B7.2 | The                 | USTMENT OF A VITEX MARKOR schedule rates are fining for effendance on nominates that are salepted subscention other contractors, will be adjusted only if the scope of the work has changed Fixed:  Value related:  This related:   |    |
| В8   | FINA                | ANCIAL ASCUBES  |    |
| B8.1 |                     | CURITY  contractor shall furnish one of the following forms of security:  Two approved streets s who bhall be required to dights dead of curety-lapt or   |    |
|      | 2.                  | A cash deposit of 10% of the content sum; or  |    |
|      | 3.                  | A bank guarances for 10% of the contract civin; or  |    |
|      | 4.                  | An insurance custoolee for 10% or the contract sur.   |    |
|      | wor<br>Who<br>in re | security will be minute upon issue of the First Dulivacy Decadeste for the nemplets ks referred to the scale 2n(1) of the Occadions of Contract en the work is to be executed in a single phase and a First Delivery Certificate is issue espect of a completed portion of the works in terms of discuse 21(3) of the Conditions of the security will neither be terminated nor reduced.  | ed |

When the works is define the executed in two or more phases, and a completed phase is handed over and a Flust Delivery Certificate is issued at respect of that phase, the contractor may apply to the Representative/Agent for a revision of the amount of the

Fixed: Value related: This related: Bem

security

| _ |     |      |   |
|---|-----|------|---|
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| B8.2 | VALUE-ADDED TAX (VAT)   |
|------|---|
|      | e tendered price must include for Value-Added Tax (VAT). All rates, provisional sums,   |
|      | etc in these bills of quantities must however be net with VAT calculated and added to the   |
|      | total value thereof in the Final Summary  Fixed: Value related: Time related: Item  |
|      | rixeu value relateu riine relateu item  |
| B8.3 | CONTRACT PRICE ADJUSTMENT PROVISIONS  |
|      | The contract sum will be adjusted in accordance with the Contract Price Adjustment  |
|      | Provisions (CPAP) as set out in the CPAP Manual and Reference guide as prepared by  |
|      | the Joint Building Contracts Committee (JBCC) series 2000, Code 2105, dated May 1998  |
|      | and any amendments thereto:   |
|      | 1. Glass etc measured in specialist section Metalwork, will be adjusted in terms of the   |
|      | index for that work group unless specifically stated otherwise in the tender enquiry  |
|      | documents   |
|      | 2. All electrical installations in buildings and power distribution systems shall be  |
|      | adjusted in terms of the index for Work Group 160 Electrical Installation. In case of   |
|      | uninterruptible power supplies, elevators, escalators and hoists, generating sets,  |
|      | motor-alternator sets and intercommunication systems shall be in accordance with  |
|      | Work Group 170.   |
|      | 3. With reference to Work Group 190 a proportion of the Value related Preliminaries   |
|      | pro rata to the amount of work excluded from adjustment, shall be excluded from   |
|      | Contract Price Adjustment Provisions.  4. Further to clause 3.4.4 of the Contract Price Adjustment Provisions Manual and  |
|      | 4. Further to clause 3.4.4 of the Contract Price Adjustment Provisions Manual and Reference guide, the listing of additional items for exclusion by tenderers, will not be  |
|      | permitted. Should a tenderer list any additional items his tender will be regarded as   |
|      | being qualified and dealt with accordingly  |
|      | 5. Selected Sub-Contractors shall be dealt with the same manner as Nominated Sub-   |
|      | Contractors   |
|      | 6. Where V results in a negative amount after application of the formula in clause 9.3  |
|      | the factor of 0,55 shall be substituted by 1,45   |
|      | Fixed: Value related: Time related: Item  |
|      |   |
| B8.4 | IMPORTED MATERIALS AND EQUIPMENT  |
|      | Where imported items are listed in the Tender documents, the tenderer shall provide all   |
|      | the information called for, failing with the price of any such item, material or equipment  |
|      | shall be excluded from currency fluctuations.   |
|      | Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the   |
|      | price of any item, material or equipment listed in terms of this clause shall be excluded   |
|      | from contract price adjustment or escalation.   |
|      | nom contact price adjustment or coodiation.   |
|      | Fixed: Value related: Time  |
|      | Fixed:Value related:Time related:Time   |
|      |   |
| B9   | GENERAL   |
| DO 4 | DISTURBANCE   |
| B9.1 | DISTURBANCE The contractor of all execute the wards with an little naise and disturbance as possible to   |
|      | The contractor shall execute the works with as little noise and disturbance as possible to  |
|      | adjoining premises and tenants thereof. He shall keep the site, structures, etc well watered  |
|      | during operations to prevent dust and shall provide and erect and remove on completion of<br>the works all necessary temporary dust screens all to the satisfaction of the  |
|      | · · · · · · · · · · · · · · · · · · ·   |
|      | Representative/Agent In the event of beneficial occupation of a portion of the work being taken the contractor.   |
|      | In the event of beneficial occupation of a portion of the work being taken the contractor shall take similar precautions as described above in respect of occupied premises |
|      | Fixed: Value related: Time related: Item  |
|      | r ixeu value relateu rillie relateu item  |
| B9.2 | CLEANING  |
|      | The contractor shall regularly remove or dispose of any rubbish and superfluous material  |
|      | that may accumulate on the site   |
|      | Fixed:Value related: Time related: Item   |
|      |   |
|      | Each Item Ca  |

| B9.3 | VERMIN  e contractor shall vermin during constru- Fixed: | take all necessary precau<br>action and shall leave the w<br>Value related: | tions to keep the works and s<br>vorks vermin free on completion<br>Time related: | ite free from<br>n<br>Item |
|------|--|---|---|----------------------------|
| B9.4 | JOBBING Each trade shall perfall other trades Fixed:     | orm all necessary jobbing Value related:                                    | and attendance and shall mak  | e good after               |

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## SPECIFIC PRELIMINARIES

The following items will apply to this contract except where NA (not applicable) appears

| EXISTING PREMISES OCCUPIED  The existing premises will be in use and occupied during the course of this contract The contractor shall execute the works in such a manner as will least interfere with the general routine of the occupants of the premises and shall minimise any nuisance from dust, noise or other causes  Fixed:  |    | against an item  | apply to the contact of  | sopt whole that (not applical  | bic) appears  |
|--|----|--|--|--|---|
| INACCURATE AND DEFECTIVE WORK EXECUTED UNDER A PREVIOUS CONTRACT The contractor shall, after taking possession of the site and before commencing the work, check the existing levels, lines, 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 Representative/Agent in writing requesting his instructions with regard thereto and afford every facility to those rectifying such inaccurate or defective work  Fixed:   | :1 | The existing premises The contractor shall e general routine of the  | will be in use and occupied execute the works in such  | a manner as will least inter   | fere with the   |
| The contractor shall, after taking possession of the site and before commencing the work, check the existing levels, lines, 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 Representative/Agent in writing requesting his instructions with regard thereto and afford every facility to those rectifying such inaccurate or defective work  Fixed:   |    | Fixed:   | Value related:   | Time related:  | Item  |
| VIEWING THE SITE IN SECURITY AREAS  The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes  Fixed:   | 2  | The contractor shall, a check the existing leve accuracy of all work ex Should any inaccurate Representative/Agent | after taking possession of the list, lines, profiles and the list recuted under the previous of or defective work be found in writing requesting his in  | e site and before commencies and satisfy himself as to the ontract which may affect his with contractor shall immediate structions with regard thereto | ng the work,<br>dimensional<br>work<br>ely notify the |
| The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes  Fixed:   |    | Fixed:   | Value related:   | Time related:  | Item  |
| As the works falls within a security area the contractor must give the unit commander or other responsible officer notice 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  Fixed:   | 3  | The site is situated commander or other r  | in a security area and th  | e tenderer must arrange w<br>permission to enter the site t  | vith the unit<br>for tendering                        |
| As the works falls within a security area the contractor must give the unit commander or other responsible officer notice 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  Fixed:   |    | Fixed:   | Value related:   | Time related:  | Item  |
| As 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 may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer  Fixed: Value related: Time related: Item  SECURITY CHECK OF PERSONNEL  The Representative/Agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified In the event of the Representative/Agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works | 4  | As the works falls with other responsible offic fail to make such arra   | nin a security area the conternation of the content of the commence of the comments, admission to the content of the content o | ractor must give the unit co<br>ment of the works. Should th   | e contractor  |
| As 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 may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer  Fixed:  |    | Fixed:   | Value related:   | Time related:  | Item  |
| The Representative/Agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified In the event of the Representative/Agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works   | 5  | As the works falls with<br>personnel and workm<br>instructions which may   | in a security area the contra<br>en entering the area and<br>be issued from time to time   | shall comply with all regular regarding the protection of  | ulations and  |
| The Representative/Agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified In the event of the Representative/Agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works   |    | Fixed:   | Value related:   | Time related:  | Item  |
| or a certain number of them, security classified In the event of the Representative/Agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works  | 3  | SECURITY CHECK O   | PERSONNEL  |  |   |
| Fixed:Value related: Time related: Item  |    | or a certain number of<br>In the event of the Re<br>from the works for sec-<br>ensure that such person             | them, security classified<br>epresentative/Agent request<br>urity reasons, the contractor<br>on or persons are denied ac   | ing the removal of a person shall do so forthwith and sha  | or persons  |
|  |    | Fixed:   | Value related:   | Time related:  | Item  |

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#### C7 PROHIBITION ON TAKING OF PHOTOGRAPHS

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 of photographs except when authorised thereto by or on behalf of the Minister

The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959

Fixed: \_\_\_\_\_ Value related: \_\_\_\_ Time related: \_\_\_\_ Item

#### SECTION 1 PRECIDINARIES

#### COLLECTION

**AMOUNT** 

|            | Item   | AMOUNI |              |  |
|------------|--|--------|--------------|--|
|            | Page   | R      | С            |  |
| PART       | A: CONDITIONS OF CONTRACT                                      | K      |              |  |
| <b>A</b> 1 | Definitions  |        |              |  |
| A2         | Drawings, specifications and bills of quantities               |        |              |  |
| <b>A</b> 3 | Contractor's obligations                                       |        |              |  |
| A4         | Contractor's representative                                    |        |              |  |
| <b>A</b> 5 | Employees to be efficient                                      |        |              |  |
| <b>A</b> 6 | Material and work to conform to description                    |        |              |  |
| <b>A</b> 7 | Local and other authorities                                    |        | ŀ            |  |
| <b>A</b> 8 | Setting out of the works                                       |        |              |  |
| <b>A</b> 9 | Notice of covering work  |        |              |  |
| A10        | Material and goods to be the property of the Director-General  |        |              |  |
| A11        | Plant to be the property of the Director-General               |        |              |  |
| A12        | Injury to the works  |        |              |  |
| A13        | Injury to persons or property                                  |        |              |  |
| A14        | Cession or assignment  |        |              |  |
| A15        | Prime cost items and provisional sums                          |        |              |  |
| A16        | Nominated subcontractors                                       |        |              |  |
| A17        | Facilities to other contractors                                |        |              |  |
| A18        | Variations 4   |        |              |  |
| A19        | Daywork  |        |              |  |
| A20        | Commencement and completion                                    |        |              |  |
| A21        | First and final delivery 5                                     |        |              |  |
| A22        | Contractor's liability in respect of defects                   |        |              |  |
| A23        | Payment 6  |        |              |  |
| A24        | Default by contractor 6  |        | <u> </u><br> |  |
| A25        | Delays by Director-General 6                                   |        |              |  |
| A26        | Sequestration, liquidation, insolvency and judicial management |        |              |  |
| A27        | Disputes   |        |              |  |
| A28        | Cancellation by Director-General                               |        |              |  |
| A29        | Amendment of Conditions of Contract                            |        |              |  |
|            | 1  |        |              |  |
|            | Carried forward R  |        |              |  |

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| PART  | B: STANDARD PRELIMINARIES                    | Brought forward   | R      |
|-------|--|-------------------|--------|
| B1    | Documentation                                |                   |        |
| B1.1  | Documents                                    |                   | _      |
| B1.2  | Contract drawings                            |                   |        |
| B1.3  | Bilis of Quantities                          |                   |        |
| B1.4  | Provisional Bills of Quantities              |                   | 3      |
| B1.5  | General preambles                            | {                 | 3      |
| B1.6  | Standard System of Measuring Building Work   | ······ {          | 3      |
| B1.7  | Definition of approved, directed or selected | 8                 | )      |
| B1.8  | Trade names                                  | و                 | ,      |
| B1.9  | Provisional items                            | ······ §          | ,      |
| B1.10 | Details                                      | ٠٠٠٠٠٠٠ ١         |        |
| B2    | The site                                     | ະ ຮ               | ,      |
| B2.1  | Viewing the site                             | 0                 | ,      |
| B2.2  | Boundary beacons                             | 9                 | i      |
| B2.3  | Adjoining properties                         |                   |        |
| B2.4  | Unknown services                             |                   |        |
| B2.5  | Protection of trees and shrubs               | 10                | ,<br>1 |
| B2.6  | Articles of value                            | 10                | ,      |
| В3    | Management of the contract                   |                   | '      |
| B3.1  | Programming of the works                     |                   |        |
| B3.2  | Management of the works                      | 10                |        |
| B3.3  | Progress meetings                            | 10                |        |
| B4    | Material and workmanship                     |                   |        |
| B4.1  | Ordering of materials                        | 11                |        |
| B4.2  | Samples of materials and workmanship         | 11                |        |
| B5    | Temporary works and plant                    | 11                |        |
| B5.1  | Enclosure of works                           | 11                | 1      |
| B5.2  | Sheds  | 11                | ĺ      |
| B5.3  | Office for the Representative/Agent          | 11                |        |
| B5.4  | Notice Board                                 | 11                |        |
| B5.5  | Advertisements                               | 12                |        |
| B5.6  | Plant and scaffolding                        | 12                |        |
|       |  | Carried forward R | $\mid$ |
|       |  |                   | 1      |

|        | Brough   | t forward R |   | ı        |
|--------|--|-------------|---|----------|
| B6     | Temporary services   |             |   |          |
| B6.1   | Provision of water for the works                                 | 12          |   |          |
| B6.2   | Provision of electricity and lighting                            | 12          |   |          |
| B6.3   | Provision of telephone   | 12          |   |          |
| B6.4   | Provision of toilets   | 12          |   |          |
| B7     | Attendance on nominated and/or selected subcontractors and oth   | er          |   |          |
| B7.1   | contractors Definition of attendance                             | l l         |   |          |
| B7.2   | Adjustment of attendance   |             |   |          |
| B8     | Financial aspects  |             |   |          |
| B8.1   | Security   | 13          |   |          |
| B8.2   | Value-Added Tax (VAT)  | 14          |   |          |
| B8.3   | Contract Price Adjustment Provisions                             | 14          |   |          |
| B8.4   | Imported materials and Equipment                                 |             |   |          |
| B9     | General  |             |   |          |
| B9.1   | Disturbance  | 14          |   |          |
| B9.2   | Cleaning   |             |   |          |
| B9.3   | Vermin   | 15          |   |          |
| B9.4   | Jobbing  |             |   |          |
| PART ( | C: SPECIFIC PRELIMINARIES  |             |   |          |
| C1     | Existing premises occupied                                       | 16          |   |          |
| C2     | Inaccurate and defective work executed under a previous contract |             |   |          |
| C3     | Viewing the site in security areas                               | 16          |   |          |
| C4     | Commencement of works in security areas                          | 16          |   |          |
| C5     | Entrance permits to security areas                               | 16          |   |          |
| C6     | Security check of personnel                                      | 16          |   | ]        |
| C7     | Prohibition on the taking of photographs                         | 17          |   |          |
|        | SECTION 1  |             |   | <u> </u> |
|        | PRELIMINARIES  |             |   |          |
|        |  |             |   |          |
|        | CARRIED TO FINAL SUMMARY   | R           |   |          |
|        |  |             |   |          |
|        | SUB  | TOTALS:     | R | С        |
|        | Category   | : Fixed R   |   |          |
|        | Category   | : Value R   |   |          |
|        | Category   | y: Time R   |   |          |

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### CHEDULE OF SUPPLEMENTARY INFORMATION

NOTE: The information listed below is in respect of certain items in the Preliminaries, requiring the supplementary information:

| ITEM NO | PAGE NO | INFORMATION   |
|---------|---------|---|
| A13     | 3       | Amount of insurance against removal of support to adjoining properties in respect of any single occurrence (clause 13(iv)): |
|         | ļ       | Not specifically prescribed   |
| A20     | 5       | Contract period: 6 Months   |
| A24     | 6       | Amount of penalty per day on which the completion of the works may be in arrear:  |
|         |         | R 600.00 (Excluding VAT)  |
| B1.2    | 8       | Contract drawing numbers:   |
|         |         |   |
|         |         |   |
|         |         |   |
|         |         |   |
|         |         |   |
|         |         |   |
|         |         |   |
|         |         |   |
|         |         |   |
|         |         |   |
| B1.5    | 8       | Edition of Specification of Materials and Methods to be used  |
|         |         | (PW371):  |
| B1.6    | 9       | Edition of Standard System of measuring Building Work:  |
|         |         |   |

## SUMMARY

|   | Section   | Page | R | С |
|---|---|------|---|---|
|   | PART A  |      |   |   |
| 1 | Preliminaries   |      |   |   |
| 2 | Site work   |      |   |   |
|   |   |      |   |   |
|   |   |      |   |   |
|   |   |      |   |   |
|   | SUBTOTAL  | R    |   |   |
|   | Credit for old materials recoverable from demolitions/alterations | R    |   |   |
|   | TOTAL BILL 1 CARRIED TO SUMMARY                                   | R    |   |   |



PRELIMINARY AND GENERAL BILL 2

BILL 2 Page 1 of 7

| BILL 2 |   |      | TE  | NDER VALUE |  |
|--------|---|------|-----|------------|--|
| TEM    | DESCRIPTION   | UNIT | QTY | RATE       | RANDS  |
| 2.1    | In addition to the Contract P&G the total amount allowed under this Schedule shall provide completely for all requirements of the General and Additional Conditions of Contract and as specified. |      |     |            |  |
| 2.2    | Allow for all costs associated with site inspection and mapping of all emergency power switchboards and circuits  | Item | 1   |            |  |
| 2.3    | Allow for the design of the required switchoards and electrical circuits  | Item | 1   |            |  |
| 2.4    | Alow for working in a DCS working environment with all attendant secuirty and access requirements.  | Item | 1   |            |  |
| 2.5    | Allow for transport/travelling charges.   | Item | 1   |            |  |
| 2.6    | Allow for attending monthly site meetings and managing of project   | Item | 1   |            |  |
| 2.7    | Allow for record drawings and operating instructions.   | Item | 1   |            | The second secon |
| 2.8    | Allow for 12 months Maintenance as specified  | Item | 1   |            |  |
| 2.9    | Allow for submission of drawings to the Engineer for approval.  | Item | 1   |            |  |
| 2.1    | Allow for costs incurred for site establishment, ablution facilities, off loading and storage and removal of site establishment on completion of contract.  | Item | 1   |            |  |
| 2.11   | Allow forcost for supply and use of electricity, water, telephone and, if applicable, radio communication system.   | Item | 1   |            |  |
| 2.12   | Allow for 12 months and 48 h repair guarantee in terms of the Document  | Item | 1   |            |  |
| 2.13   | Allow for lifting gear, cranes etc. that may be required for moving plant and equipment into position   | Item | 1   |            |  |
| 2.14   | Allow for setting out of the works  | Item | 1   |            |  |
| 2.15   | Allow for switching off and earthing to make supply safe and to re-energise after installation or as required by the user   | Item | 1   |            |  |
| 2.16   | Allow for disconnection and the removal from site and disposal of existing DA sets and Switchboards   | Item | 1   |            |  |
| 2.17   | Test, commission of the installations, and COC certifictae  | Item | 1   |            |  |
| 2.18   | Compliance with OHS Act and Construction Regulations 2003   | Item | 1   |            |  |
|        |   | 1    |     |            |  |



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|       |   |      | TE  | NDER VALUE                             | Page 3 |
|-------|---|------|-----|--|--------|
| ITEM  | DESCRIPTION   | UNIT | QTY | RATE                                   | RAND   |
| 3.1   | Distribution Boards                                     |      |     |  |        |
|       | Supply and install distribution boards as               |      |     |  |        |
|       | specified and shown on the relevant drawings            |      |     |  |        |
|       | (excludes the DA set control and change over            |      |     | 1                                      |        |
|       | DBs supplied with the sets)                             |      |     |  |        |
| 3.1.1 | Bethuli DCS: exisitng main LV board to be               |      |     |  |        |
|       | disconnected from mains supply and connected            |      | l i |  |        |
|       | to new feed cable from the DA set ATS;                  |      | i i |  |        |
|       | disconnect exisiting and run new cable to the           |      |     |  |        |
|       | DA set ATS  | No   | 1 1 |  |        |
| 3.1.2 | Replacement MCBs  | -    |     |  | ,      |
| 4.    | Remove existing Supply and install new 10kA             |      |     |  |        |
|       | MCBs in the existing main LV DB                         |      |     |  |        |
|       | complete with all rails and labels                      |      |     |  |        |
|       | 20A SP  | No   | 4   |  |        |
|       | 32A SP  | No   | 2   |  |        |
|       | 40A SP  | No   | 2   |  |        |
|       | 50A SP  | No   | 2   |  |        |
| •     | 63A SP  | No   | 2   |  |        |
|       | 20A TP  | No   | 4   |  |        |
| -3-0  | 32A TP  | No   | 2   |  |        |
|       | 40A TP  | No   | 2   |  |        |
|       | 50A TP  | No   | 2   |  |        |
|       | 63A TP  | No   | 2   |  |        |
|       | 32A SP+N  | No   | 2   |  |        |
|       | 40A SP+N  | No   | 2   |  |        |
|       | 50A SP+N  | No   | 2   |  |        |
|       | 63A SP+N  | No   | 2   | ************************************** |        |
|       | 32A TP+N  | No   | 2   |  |        |
|       | 40A TP+N  | No   | 2   |  |        |
| ***   | 50A TP+N  | No   | 2   |  |        |
|       | 63A TP+N  | No   | 2   |  |        |
|       |   |      |     |  |        |
| 3.2   | Cables  |      |     |  |        |
|       | Supply and install the following PVC SWA PVC            |      |     |  |        |
|       | copper cables with clamps and supports                  |      |     |  |        |
| 3.2.1 | 4 x core 70mm sq on cable ladder/sleeve                 | m    | 112 |  |        |
| 3.2.2 | Cable terminations (all cores) complete with            |      |     |  | -      |
| 3.2.3 | 4 x core 70 mm sq on cable ladder/ sleeve               | No   | 4   |  |        |
|       | 35mm BCEW   | No   | 4   |  |        |
|       |   |      |     |  |        |
| 3.3   | BCEW  |      |     |  |        |
|       | Supply install and connect the following                |      |     |  |        |
|       | BCEW on cable trays or sleeves                          |      |     |  |        |
| 3.3.1 | 35mm sq   | m    | 112 |  |        |
| 3.4   | Cable ladders   |      |     |  |        |
| J.→   | Supply ans install the following heavy duty             |      |     | - 1-                                   |        |
|       |   |      |     |  |        |
| •     | cable ladders inclusive of suspension rods and brackets |      |     |  |        |
| 2/1   |   |      |     |  |        |
| 3.4.1 | 200mm wide  | M No | 8   |  |        |
| 3.4.2 | 200mm wide bends and tees                               | No   | 2   |  |        |

GENERAL - DIESEL GENERATORS BILL 4 Page 4 of 7

| DESCRIPTION  Diesel Generator at Bethuli DCS  Supply and deliver to site and install the containerised, silenced weather proofed set  Diesel Generator Set complete  Supply and deliver to site and install the diesel generator complete with control panel including ATS change over contactors and main feedcircuit breaker.  Generator to be installed outdoor, in silenced container on new reinforced concrete plinth cast under this contract  100kVA diesel generator (outdoor type)  Sound attenuation  Set mounted fuel tank for 24hrs running time  Full fuel tank on handover | No<br>Sum                | QTY 1                    | TARIFF                   | RANDS                                   |
|---|--------------------------|--------------------------|--------------------------|---|
| Supply and deliver to site and install the containerised, silenced weather proofed set  Diesel Generator Set complete  Supply and deliver to site and install the diesel generator complete with control panel including ATS change over contactors and main feedcircuit breaker.  Generator to be installed outdoor, in silenced container on new reinforced concrete plinth cast under this contract  100kVA diesel generator (outdoor type)  Sound attenuation  Set mounted fuel tank for 24hrs running time   | Sum                      | 1                        |                          |   |
| containerised, silenced weather proofed set Diesel Generator Set complete Supply and deliver to site and install the diesel generator complete with control panel including ATS change over contactors and main feedcircuit breaker. Generator to be installed outdoor, in silenced container on new reinforced concrete plinth cast under this contract 100kVA diesel generator (outdoor type) Sound attenuation Set mounted fuel tank for 24hrs running time  | Sum                      | 1                        |                          |   |
| Diesel Generator Set complete Supply and deliver to site and install the diesel generator complete with control panel including ATS change over contactors and main feedcircuit breaker. Generator to be installed outdoor, in silenced container on new reinforced concrete plinth cast under this contract 100kVA diesel generator (outdoor type) Sound attenuation Set mounted fuel tank for 24hrs running time  | Sum                      | 1                        |                          |   |
| Supply and deliver to site and install the diesel generator complete with control panel including ATS change over contactors and main feedcircuit breaker.  Generator to be installed outdoor, in silenced container on new reinforced concrete plinth cast under this contract  100kVA diesel generator (outdoor type)  Sound attenuation  Set mounted fuel tank for 24hrs running time  | Sum                      | 1                        |                          |   |
| diesel generator complete with control panel including ATS change over contactors and main feedcircuit breaker.  Generator to be installed outdoor, in silenced container on new reinforced concrete plinth cast under this contract  100kVA diesel generator (outdoor type)  Sound attenuation  Set mounted fuel tank for 24hrs running time   | Sum                      | 1                        |                          |   |
| including ATS change over contactors and main feedcircuit breaker.  Generator to be installed outdoor, in silenced container on new reinforced concrete plinth cast under this contract  100kVA diesel generator (outdoor type)  Sound attenuation  Set mounted fuel tank for 24hrs running time  | Sum                      | 1                        |                          | · · · · · · · · · · · · · · · · · · ·   |
| feedcircuit breaker.  Generator to be installed outdoor, in silenced container on new reinforced concrete plinth cast under this contract  100kVA diesel generator (outdoor type)  Sound attenuation  Set mounted fuel tank for 24hrs running time  | Sum                      | 1                        |                          | <del></del>                             |
| Generator to be installed outdoor, in silenced container on new reinforced concrete plinth cast under this contract 100kVA diesel generator (outdoor type) Sound attenuation Set mounted fuel tank for 24hrs running time   | Sum                      | 1                        |                          | *                                       |
| container on new reinforced concrete plinth cast under this contract 100kVA diesel generator (outdoor type) Sound attenuation Set mounted fuel tank for 24hrs running time  | Sum                      | 1                        |                          |   |
| under this contract<br>100kVA diesel generator (outdoor type)<br>Sound attenuation<br>Set mounted fuel tank for 24hrs running time  | Sum                      | 1                        |                          |   |
| 100kVA diesel generator (outdoor type) Sound attenuation Set mounted fuel tank for 24hrs running time   | Sum                      | 1                        |                          |   |
| Sound attenuation Set mounted fuel tank for 24hrs running time  | Sum                      | 1                        |                          |   |
| Set mounted fuel tank for 24hrs running time  |                          |                          |                          |   |
|   |                          | 1                        |                          | *************************************** |
| Full fuel tank on handover  | No                       | 1                        |                          |   |
| Tan Idol Idii Kon Ilandovo.   | Sum                      | 1                        |                          |   |
| One year free maintenance and guarantee   | Sum                      | 1                        |                          |   |
| Maintenance manuals   | No                       | 3                        |                          |   |
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|   | ILL 4 CARRIED TO SUMMARY                |



## DAYWORKS AND AUTHORISED OVERTIME

Page 5 of 7

| ILL 5    |  |       | TEND | ER VALUE | Page 5 of 7 |
|----------|--|-------|------|----------|-------------|
| EM       | DESCRIPTION  | UNIT  | QTY  | RATE     | RANDS       |
|          |  |       |      |          |             |
| 5        | Schedule of Daywork Rates  |       |      | ļ —      |             |
|          | The state of the s |       |      |          |             |
|          | Work that in the opinion of the engineer cannot be priced at Contract  |       |      |          |             |
|          | rates or rates analogous thereto shall be paid for a Daywork Rates as  |       |      | 1        |             |
|          |  |       |      |          |             |
|          |  |       |      | 1        |             |
|          |  |       |      |          |             |
|          | The Tenderer is to price hereunder all categories of labour details  |       |      |          |             |
|          | herein and their respective rates. All handtools, portable electric tools,   |       |      | Ì        |             |
|          | construction equipment, site supervision, all allowances, preliminaries  |       |      | :        |             |
|          | etc. shall be included in the rates submitted. A flat rate per hour is to  |       |      |          |             |
|          | be tendered for each category  |       |      |          |             |
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|          |  |       |      |          |             |
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|          |  |       |      | -        |             |
| <u> </u> | Category 1 : Daywork executed in normal working hours.   | i     |      |          |             |
| 5.1      | Category 1: Daywork executed in normal working nours.  |       |      |          | 1           |
|          |  |       |      | <b>-</b> |             |
|          |  | Hour  | 40   |          |             |
|          | a) Artisan   | Hour  | 40   | +        |             |
|          | b) Labourer c) Apprentice  | Hour  | 40   |          | -           |
|          | c) Appletitice   | , , , |      |          |             |
| 5.2      | Category 2: Daywork executed on Monday to Friday outside the hours   |       |      |          |             |
| 0.2      | of 07:00 to 17:00  |       |      |          | ŀ           |
|          |  |       |      |          |             |
|          | a) Artican   | Hour  | 40   |          |             |
|          | a) Artisan<br>b) Labourer  | Hour  | 40   |          |             |
|          | c) Apprentice  | Hour  | 40   |          |             |
|          | c) Appletitice   |       |      |          |             |
| 5.3      | Category 3: Daywork Executed on Saturday or Sunday   |       |      |          |             |
|          |  |       |      |          |             |
|          | a) Artisan   | Hour  | 20   |          | ļ           |
|          | b) Laborer   | Hour  | 20   |          |             |
|          | c) Apprentice  | Hour  | 20   | <u> </u> | <b></b>     |
|          |  |       |      |          |             |
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| OTAL     | BILL 5 CARRIED TO SUMMARY  |       |      |          |             |



Page 6 of 7

|          |  |      |                | TENDER VALU | <u> </u> |
|----------|--|------|----------------|-------------|----------|
| TEM      | DESCRIPTION                                    | UNIT | QTY            | RATE        | RANDS    |
| 6.1      | Manholes                                       |      |                |             |          |
|          | Supply and install manholes with concrete      |      |                |             |          |
|          | floor, brick walls and heavy duty man hole     |      |                |             |          |
|          | covers. Sizes of manholes as follows:          |      |                |             |          |
| 6.1.1    | 600rnm x 600mm x 600mm deep                    | No   | 4              |             |          |
|          |  |      |                |             |          |
| 6.2      | Sleeves  |      |                |             |          |
|          | Supply and install sleeves interconnecting     |      |                |             |          |
|          | manholes buried underground and into buildings |      |                |             |          |
| 6.2.1    | 100mm dia                                      | m    | 16             |             |          |
| 6.3      | Split Sleeves                                  |      |                |             |          |
|          | Supply and install split sleeves under         |      | **             |             |          |
|          | roadways for cables                            |      |                |             |          |
| 6.3.1    | 100mm dia                                      | m    | 24             |             |          |
| <u> </u> | Toomin dia                                     |      |                |             |          |
| 6.4      | Excavations                                    |      |                | (1) (1) (1) |          |
|          | Excavate trenches for the installation of      |      |                |             |          |
|          | sleeves and cables 700mm deep and 400mm        |      | '              |             |          |
|          | wide, backfill and compact to specification    |      |                |             |          |
|          |  |      |                |             |          |
| 6.4.1    | Excavate lineal metres in hand pickable soil   | No   | 98             |             |          |
| 6.4.2    | Excavate lineal metres in rocky soil           | No   | 14             |             |          |
|          |  |      |                |             |          |
| 6.5      | River sand                                     |      |                |             |          |
|          | Supply and install river sand for bedding      |      |                |             |          |
|          | of cables in the blottom of the                |      |                |             | <u> </u> |
|          | trenches- 75mm below cables and                |      |                |             |          |
|          | 150mm above cables                             |      |                |             |          |
| 6.5.1    | Cubic metres of river sand                     | No   | 13             |             |          |
|          |  |      |                |             |          |
| 6.6      | Repair Existing Tarmac Roadways                |      |                |             |          |
|          | Repair existing roadways by specialist         |      |                |             |          |
|          | contractor where trenches have had to cross    |      |                |             |          |
|          | existing tarmac roadways                       |      |                |             |          |
| 6.6.1    | Square metres of tarmac roadway                | No   | 12             |             |          |
|          |  |      | 1              |             |          |
| 6.7      | Concrete Plinths                               |      |                |             |          |
|          | Supply and install level reinforced concrete   |      | 1              |             |          |
| •        | plinths with MR395 steel mesh, for new outdoor |      |                |             |          |
|          | diesel generators including all earthworks and |      |                |             |          |
|          | compaction (95 mod ashto) and carting away     |      |                | · ·         | 1        |
|          | and disposal of spoils; construction to DPW    |      | ļ              |             |          |
|          | details including fuel containment bund        |      |                |             |          |
|          | details including fact containment band        | item | 1              | }           |          |
|          |  | 1.0  | <del>† '</del> |             |          |
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| DESCRIPTION   | TENDER AMOUNT |
|---|---------------|
| BILL 1 - PRELIMINARY AND GENERAL  |               |
| BILL 2 - ADDITIONAL PRELIMINARY AND GENERAL                               |               |
| BILL 3 - MAINS POWER INSTALLATION   |               |
| BILL 4 - DIESEL GENERATORS  |               |
| BILL 5 - DAYWORKS AND AUTHORISED OVERTIME                                 |               |
| BILL 6- CIVIL WORKS   |               |
|   |               |
| TOTAL EXCLUDING VAT   |               |
| ADD 15% VAT   |               |
| TOTALTENDER SUM (INCLUDING VAT) TO BE CARRIED TO FORM OF TENDER : DPW07EC |               |

| NAME OF CONTRACT | OR |
|------------------|----|
|------------------|----|

ADDRESS

TELEPHONE NUMBER

DATE SIGNATURE

## T 2.2 Returnable Schedules Required for Tender Evaluation Purpose



#### **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 (1) 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 |
|-----------|-----------------|---------------------------|
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
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|           |                 |                           |

<sup>(1)</sup> 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.

YES / NO



|             | Public Works and Infrastructure<br>REPUBLIC OF SOUTH AFRICA |                   |                  |                  |              |          |
|-------------|---|-------------------|------------------|------------------|--------------|----------|
| 2 <u>.2</u> | Do you, or any p  | erson connected v | vith the bidder, | have a relations | ship with an | y person |

who is employed by the procuring institution?

| 2.2.1 | !f 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 D   | ECLARATION  |

3.1 I have read and I understand the contents of this disclosure;

certify to be true and complete in every respect:

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;

I, the undersigned, (name)......in submitting the accompanying bid, do hereby make the following statements that I

- 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 consortium2 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.

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 2 of 3
For External Use

Effective date 5 July 2022

Version: 2022/03

<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.



3.

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  | <br>Name of bidder |



## PA-15.1: RESOLUTION OF BOARD OF DIRECTORS

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

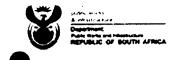
| gally correc | ct full name and registration number, if appli  | cable, of the Enterprise)            |                                     |
|--------------|---|--------------------------------------|-------------------------------------|
| eld at       |   | (place)                              |                                     |
|              |   | (date)                               |                                     |
| SOLVE        |   |                                      |                                     |
|              | terprise submits a Bid / Tender to th   | e Department of Public Works in re   | spect of the following project:     |
| THE LIT      | torp. 100 oub.into a Bia? Periode to an   |                                      |                                     |
| (Project     | description as per Bid / Tender Document)   |                                      |                                     |
| Bid / Te     | ender Number:   | (Bid / Tender Nu                     | ımber as per Bid / Tender Document) |
| *Mr/Mrs      | s/Ms:   |                                      |                                     |
| in *his/l    | ner Capacity as:  |                                      | (Position in the Enterprise)        |
| and wh       | no will sign as follows:  |                                      |                                     |
| correst      | d is hereby, authorised to sign to condence in connection with and read all documentation, resulting from | elating to the Bid / Tender, as well | as to sign any Contract, and        |
|              | Name  | Capacity                             | Signature                           |
| 1            |   |                                      |                                     |
| 2            |   |                                      |                                     |
| 3            |   |                                      |                                     |
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#### PA-15.1: Resolution of Board of Directors

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|  | Iding enterprise hereby absolves the Department of Public Works from ent being signed.  | any liability whatsoever that may arise as a result of this |
| Note   | e:  | ENTERPRISE STAMP  |
| <ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> </ol> | * 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. |   |



### **PA-15.1: RESOLUTION OF BOARD OF DIRECTORS**

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

|     | gally correct full name and registration no            |  |  |
|-----|--|--|--|
| He  | d at   | (place)                                |  |
| on  |  | (date)                                 |  |
| RE  | SOLVED that:   |  |  |
| 1.  | The Enterprise submits a Bid / T                       | ender to the Department of Public Work | s in respect of the following project:     |
|     | (Project description as per Bid / Tende                | r Document)                            |  |
|     | Bid / Tender Number:                                   | (Bid / Te                              | ender 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:                          |  |  |
| Г   | above.   | esulting from the award of the Bid / T |  |
| - 1 | Name   | Capacity                               |  |
| +   |  |  | Signature                                  |
|     | 1  |  | Signature                                  |
|     | 2  |  | Signature                                  |
|     | 3  |  | Signature                                  |
|     | 3 4  |  |  |
|     | 2<br>3<br>4<br>5                                       |  |  |
|     | 2<br>3<br>4<br>5<br>6                                  |  |  |
|     | 2<br>3<br>4<br>5<br>6<br>7                             |  |  |
|     | 2<br>3<br>4<br>5<br>6<br>7<br>8                        |  |  |
|     | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9                   |  |  |
|     | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9                   |  |  |
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#### PA-15.1: Resolution of Board of Directors

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| ding enterprise hereby absolves the Department of Public nt being signed.  | Works from any liability whatsoever that may arise as a  | result of this  |
|--|--|---|
| ×  | ENTERPRISE STAMP   |   |
| 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 / Partnersholding 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 / Partnersholding the property of the partnership and power of attorney are to be attached hereto). | e de   |   |
|  | * Delete which is not applicable.  **NB: This resolution must, where possible, be signed by at 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 Enterprismay alternatively appoint a person to sign this documer 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 / Partner holding a majority of the shares / ownership of the Biddin Enterprise (proof of shareholding / ownership and power of attorney are to be attached hereto).  Should the number of Directors / Members / Partner exceed the space available above, additional names and | * 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 |



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

| RES  | ESOLUTION of a meeting of the Board of *Directors / Membe  | ers / Partners of:  |
|------|--|---|
|      |  |   |
| (Leg | egally correct full name and registration number, if applicable, of the Enterpr  | ise)  |
| Hel  | eld at   | (place)   |
| on   | n  | (date)  |
| RE   | ESOLVED that:  |   |
| 1.   | . The Enterprise submits a Bid /Tender, in consortium/Joint Ve   | enture with the following Enterprises:  |
|      |  |   |
|      | (List all the legally correct full names and registration numbers, if application venture)   | ble, of the Enterprises forming the Consortium/Joint                                    |
|      | to the Department of Public Works in respect of the following  | ng project:   |
|      | (Project description as per Bid /Tender Document) Bid / Tender Number:   | (Bid / Tender Number as per Bid / Tender Document)                                      |
| 2.   | 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 vitem 1 above, and any and all other documents and/or corthe consortium/joint venture, in respect of the project described.                                     | respondence in connection with and relating to  |
| 3.   | <ol><li>The Enterprise accepts joint and several liability with the part<br/>of the obligations of the joint venture deriving from, and in an<br/>into with the Department in respect of the project described</li></ol> | y way connected with, the Contract to be entered  |
| 4.   | <ol> <li>The Enterprise chooses as its domicilium citandi et executa<br/>agreement and the Contract with the Department in respect</li> </ol>  | ndi for all purposes arising from this joint venture of the project under item 1 above: |
|      | Physical address:  |   |
|      |  | _   |
|      |  | _   |
|      | (coc   | le)   |

| S  | public more) A vid sed vector  Opportunit Real Wate and tribute two REPUBLIC OF SOUTH AFRICA | PA-15.2: Resolution of Board of Directors to enter into Consortia or Joint Ventures |
|----|--|---|
| Po | stal Address:  | ·   |

| Postal Address:   |        |
|-------------------|--------|
|                   | (code) |
| Telephone number: |        |
| Fax number:       |        |

|    | Name | Capacity | Signature |
|----|------|----------|-----------|
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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

#### \* 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

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.

holding a majority of the shares / ownership of the Bidding Enterprise (proof of shareholding / ownership and power of

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**ENTERPRISE STAMP** 

Note:



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

| <b>SOLUTION</b> of a meeting of the duly authorised repered into a consortium/joint venture to jointly bid for istration numbers, if applicable, of the Enterprises forming a Constant |   |
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|  |   |
|  |   |
|  | (place)   |
| Held at  | (date)  |
| on   |   |
| RESOLVED that:   |   |
|  |   |
| RESOLVED that:   |   |
| Works in respect of the following project:   | in Consortium/Joint Venture to the Department of Public |
| <del></del>  | ·   |
| (Project description as per Bid /Tender Document)  |   |
| Bid / Tender Number:   | (Bid / Tender Number as per Bid /Tender Documen         |



#### PA-15.3: Special Resolution of Consortia or Joint Ventures

| В. | Mrs/Ms:   |                                |   |  |
|----|---|--------------------------------|---|--|
|    | in *his/her Capacity a  | ns:                            | (Position in the Enterpris  |  |
|    | and who will sign as  | follows:                       |   |  |
|    | connection with and   | relating to the Bid, as well a | d any and all other documents and/or correspondence as to sign any Contract, and any and all documentation rises in Consortium/Joint Venture mentioned above.       |  |
| C. | The Enterprises cons<br>all business under the  |                                | nt Venture, notwithstanding its composition, shall condu  |  |
| D. | the obligations of the  | Consortium/Joint Venture de    | e accept joint and several liability for the due fulfilment<br>leriving from, and in any way connected with, the Contra<br>ne 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 oth Enterprises to the Consortium/Joint Venture and of the Department, cede any of its rights or assign at of its obligations under the consortium/joint venture agreement in relation to the Contract with the Department referred to herein.  |                                |   |  |
| G. | purposes arising from   |                                | ndi et executandi of the Consortium/Joint Venture for a ure agreement and the Contract with the Department  •   |  |
|    | Physical address:   |                                |   |  |
|    | -   |                                |   |  |
|    | -   |                                | (Postal code)   |  |
|    | Postal Address:   |                                |   |  |
|    | -   |                                |   |  |
|    | -   |                                | (Postal code)   |  |
|    | Telephone number:   |                                |   |  |
|    |   |                                |   |  |



### PA-15.3: Special Resolution of Consortia or Joint Ventures

|    | Name | Capacity | Signature |
|----|------|----------|-----------|
| 1  |      |          |           |
| 2  |      |          |           |
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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:

\* Delete which is not applicable.

\* Delete which is not applicable.

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.

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.

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).

## PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATION



## PA-16: PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

#### 1. GENERAL CONDITIONS

- 1.1 The following preference point systems are applicable to invitations to tender:
  - 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 Preference Points System to be applied

(Tick whichever is applicable).

- ☑The applicable preference point system for this tender is the **80/20** preference point system.
- ☐ The applicable preference point system for this tender is the **90/10** preference point system.
- ☐ Either the **90/10 or 80/20** preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.
- 1.3 Points for this tender shall be awarded for:
- 1.3.1 Price; and
- 1.3.2 Specific Goals
- 1.4 The maximum points for this tender are allocated as follows:

| CHOOSE APPLICABLE PREFERENCE POINT SCORING SYSTEM |     |
|---|-----|
| PRICE   | 80  |
| SPECIFIC GOALS                                    | 220 |
| Total points for Price and Specific Goals         |     |

#### 1 Breakdown Allocation of Specific Goals Points

1.5.1 For Procurement transactions with rand value greater than R2 000.00 and up to R1 Million (Inclusive of all applicable taxes), the specific goals as listed in table 1 below are applicable.

#### All Acquisitions

#### Table 1

| Serial<br>No | Specific Goals  | Preference Points allocated out of 20 | Documentation to be submitted by bidders to validate their claim for points  |
|--------------|---|---------------------------------------|--|
| 1.           | An EME or QSE which is at least 51% owned by <b>black people</b>  | 10                                    | ID Copy Or SANAS Accredited BBBEE Certificate or sworn affidavit where applicable Or CSD Report Or CIPC (company registration) |
| 2.           | Located in a specific Local Municipality or District Municipality or Metro or Province area for work to be done or services to be rendered in that area | 2                                     | Office Municipal Rates Statement Or Permission To Occupy from local chief in case of rural areas (PTO) Or Lease Agreement      |
| 3.           | An EME or QSE which is at least 51% owned by <b>women</b>   | 4                                     | ID Copy Or CSD Report Or CIPC (company registration)   |

#### PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATION

2022

| Serial | Specific Goals   | Preference Points allocated out of 20 | Documentation to be submitted by bidders to validate their claim for points   |
|--------|--|---------------------------------------|---|
| 4.     | An EME or QSE which is at least 51% owned by people with <b>disability</b> | 2                                     | Medical Certificate Or South African Social Security Agency (SASSA) registration Or National Council for Persons with Physical Disability in South Africa registration (NCPPDSA) Or CSD Report Or CIPC (company registration) |
| 5.     | An EME or QSE which is at least 51% owned by <b>youth</b> .                | 2                                     | ID Copy Or CSD Report Or CIPC (company registration)  |

# 1.5.2 For procurement transactions with rand value greater than R1 Million and up to R50 Million (Inclusive of all applicable taxes) the specific goals as listed in table 2 below are applicable:

#### **All Acquisitions**

#### Table 2

| Serial<br>No | Specific Goals   | Preference<br>Points<br>allocated<br>out of 20 | Documentation to be submitted by bidders to validate their claim for points |
|--------------|--|--|---|
| 1.           | An EME or QSE or any entity which is at least 51% owned by <b>Historically Disadvantaged Individuals</b> (HDI) | 10   | ID Copy<br>Or   |

| 2022   |   | - C  | D L  |
|--------|---|--|--|
| Serial | Specific Goals  | Preference<br>Points<br>allocated<br>out of 20 | Documentation to be submitted by bidders to validate their claim for points                        |
|        |   |  | SANAS Accredited BBBEE<br>Certificate or sworn affidavit<br>where applicable                       |
|        |   | <b>.</b>                                       | Or   |
|        |   |  | CSD Report   |
|        |   |  | Or   |
|        |   |  | CIPC (company registration)  |
| 2.     | <b>Located</b> in a specific Local Municipality or District Municipality or Metro or Province area for work | 2  | Office Municipal Rates<br>Statement  |
| ł<br>  | to be done or services to be rendered   | -  | Or   |
|        | in that area  |  | Permission To Occupy from local chief in case of rural areas (PTO)                                 |
|        |   |  | Or   |
| į      |   |  | Lease Agreement  |
| 3.     | An EME or QSE or any entity which is at least 51% owned by women  | 4  | ID Copy  |
|        |   | }  | Or   |
|        |   | <u>}</u>                                       | CSD Report   |
|        |   |  | Or   |
|        |   |  | CIPC (company registration)  |
| 4.     | An EME or QSE or any entity which is at least 51% owned by people with                                      |  | Medical Certificate  |
|        | disability  |  | Or   |
| ,      |   |  | South African Social Security<br>Agency (SASSA) registration                                       |
|        |   |  | Or   |
|        |   |  | National Council for Persons<br>with Physical Disability in South<br>Africa registration (NCPPDSA) |
|        |   |  | Or   |
|        |   |  | CSD Report   |
|        |   |  |  |

2022

| Serial | Specific Goals  | Preference<br>Points<br>allocated<br>out of 20 | Documentation to be submitted by bidders to validate their claim for points |
|--------|---|--|---|
|        |   |  | Or  |
|        |   |  | CIPC (company registration)   |
| 5.     | An EME or QSE or any entity which is at least 51% owned by youth. | 2  | ID Copy   |
|        |   |  | Or  |
|        |   |  | CSD Report  |
|        |   |  | Or  |
|        |   |  | CIPC (company registration)   |

# 1.5.3 For procurement transactions with rand value greater than R50 Million (Inclusive of all applicable taxes) the specific goals as listed in table 3 below are applicable

# **All Acquisitions**

# Table 3

| Serial<br>No | Specific Goals   | Preference<br>Points<br>allocated<br>out of 10 | Documentation to be submitted by bidders to validate their claim for points  |
|--------------|--|--|--|
| 1.           | An EME or QSE or any entity which is at least 51% owned by <b>Historically Disadvantaged Individuals</b> (HDI)   | 4  | ID Copy Or SANAS Accredited BBBEE Certificate or sworn affidavit where applicable Or CSD Report Or CIPC (company registration) |
| 2.           | <b>Located</b> in a specific Local Municipality or District Municipality or Metro or Province area for work to be done or services to be rendered in that area | 2  | Office Municipal Rates<br>Statement<br>Or  |

2022

| Serial | Specific Goals   | Preference<br>Points<br>allocated<br>out of 10 | Documentation to be submitted by bidders to validate their claim for points                        |
|--------|--|--|--|
|        | -  |  | Permission To Occupy from local chief in case of rural areas (PTO)                                 |
|        |  |  | Or<br>Losso Agreement  |
|        |  |  | Lease Agreement  |
| 3.     | An EME or QSE or any entity which is at least 51% owned by women       | 2  | ID Copy  |
|        |  |  | Or   |
|        |  |  | CSD Report   |
|        |  |  | Or   |
|        |  |  | CIPC (company registration)  |
| 4.     | An EME or QSE or any entity which is at least 51% owned by people with | 2  | Medical Certificate  |
|        | disability   |  | Or   |
|        |  |  | South African Social Security<br>Agency (SASSA) registration                                       |
|        |  |  | Or   |
|        |  |  | National Council for Persons<br>with Physical Disability in South<br>Africa registration (NCPPDSA) |
| !      |  |  |  |
|        | OR  An EME or QSE or any entity which is                               |  | ID Copy  |
|        | at least 51% owned by <b>youth</b> .                                   |  | Or   |
|        |  |  | CSD Report   |
|        |  |  | Or   |
|        |  |  | CIPC (company registration)  |

- 1.6 Failure on the part of the tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals, if the service provider/ tenderer did not submit proof or documentation required to claim for specific goals will be interpreted to mean that preference points for specific goals are not claimed.
- 1.7 The organ of state reserves the right to require of a service provider/tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.



# 2. **DEFINITIONS**

- (a) "tender" means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) "price" means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;

(c) "rand value" means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

(d) "tender for income-generating contracts" means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and

(e) "the Act" means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

# 3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

# 3.1. POINTS AWARDED FOR PRICE

# 3.1.1. THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20

$$Ps = 80\left(1 - \frac{Pt - Pmin}{Pmin}\right)$$
 or  $Ps = 90\left(1 - \frac{Pt - Pmin}{Pmin}\right)$ 

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

# 3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

## 3.2.1. POINTS AWARDED FOR PRICE

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20 or 90/10

2022

$$Ps = 80\left(1 + \frac{Pt - P max}{P max}\right)$$
 or  $Ps = 90\left(1 + \frac{Pt - P max}{Pmax}\right)$ 

Where

Points scored for price of tender under consideration Ps

Price of tender under consideration Pt

Price of highest acceptable tender Pmax =

### POINTS AWARDED FOR SPECIFIC GOALS 4.

- In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement 4.1. Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1.2 and 3 above as may be supported by proof/ documentation stated in the conditions of this tender:
- In cases where organs of state intend to use Regulation 3(2) of the Regulations, which 4.2. states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of-
  - (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
  - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

PA-16: PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT MARCH 2023 VERSION: 2023/03 Page **8** of **10 REGULATION 2022** 

| 2022  |   |   |  |
|---|---|---|--|
|   | Number of points allocated (90/10 system) (To be completed by the organ of state) | Number of points allocated (80/20 system) (To be completed by the organ of state) |  |
| 1. An EME or QSE or any entity which is at least 51% owned by Historically Disadvantaged Individuals (HDI)  | 4   | 10  |  |
| 2. <b>Located</b> in a specific Local Municipality or District Municipality or Metro or Province area for work to be done or services to be rendered in that area | 2   | 2   |  |
| 3. An EME or QSE or any entity which is at least 51% owned by women   | 2   | 4   |  |
| 4. An EME or QSE or any entity which is at least 51% owned by people with disability  or  | 2   | 2   |  |
| 5. An EME or QSE or any entity which is at least 51% owned by youth.*   |   | 2   |  |
| (only one specific goal is applicable between specific goal number 4 and specific goal number 5 under 90/10 Preference Point System)                              |   |   |  |

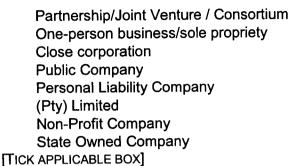
<u>Note: \*in respect of the 90/10 point system a selection of either disability or youth may be made with an allocation of 2 points for either of them.</u>

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

| 4.3. | Name of company/firm         |
|------|------------------------------|
| 4 4  | Company registration number: |

2022 4.5.

# TYPE OF COMPANY/ FIRM



- 4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I 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 paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
  - iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have
    - (a) disqualify the person from the tendering 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) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted 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, if deemed necessary.

|                   | SIGNATURE(S) OF TENDERER(S) |
|-------------------|-----------------------------|
| SURNAME AND NAME: |                             |
| DATE:             |                             |
| ADDRESS:          |                             |
|                   |                             |



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

| Project title:         | DCS: SUPPLY AND INSTALLATION OF BACK UP POWER GENERA   | POWER GENERATOR AT BETHULIE PRISON | NOSIE      |
|------------------------|--|------------------------------------|------------|
| Tender / quotation no: | BL23/008   | Closing date:                      | 25/07/2023 |
| Advertising date:      | 30/6/2023  | Validity period:                   | 84 days    |
|                        | The state of the s |                                    |            |

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

# 1.1. Current projects

| œ | 7 | 9 | 5 | 4 | 3 | 2 | 1 | Pro  |
|---|---|---|---|---|---|---|---|--|
|   |   |   |   |   |   |   |   | Projects currently engaged in                  |
|   |   |   |   |   |   |   |   | Name of Employer or Representative of Employer |
|   |   |   |   |   |   |   |   | Contact tel. no.                               |
|   |   |   |   |   |   |   |   | Contract sum                                   |
|   |   |   |   |   |   |   |   | Contractual commence-ment date                 |
|   |   |   |   |   |   |   |   | Contractual completion date                    |
|   |   |   |   |   |   |   |   | Current percentage progress                    |

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Tender no:

|   | 9 | 8 | 7 | 6 | 5 | 4 | ယ | 2 | _ | Proj<br>(five                                     |
|---|---|---|---|---|---|---|---|---|---|---|
|   |   |   |   |   |   |   |   |   |   | Projects completed in the previous 5 (five) years |
|   |   |   |   |   |   |   |   |   |   | Name of Employer or Representative of Employer    |
| - |   |   |   |   |   |   |   |   |   | Contact tel. no.                                  |
|   |   |   |   |   |   |   |   |   |   | Contract sum                                      |
|   |   |   |   |   |   |   |   |   |   | Contractual commence-ment date                    |
|   |   |   |   |   |   |   |   |   |   | Contractual completion date                       |
|   |   |   |   |   |   |   |   |   |   | Date of Certificate of Practical Completion       |

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



| Project titl | e:             |                       | DCS: SUPPLY AND INSTALLATION OF BACK UP GENERAL BETHULIE PRISON  |                              |  |  |  |  |  |
|--------------|----------------|-----------------------|--|------------------------------|--|--|--|--|--|
| ender no     | :              | BL23/008              | L23/008 Reference no: 4/2/1/1//35.   |                              |  |  |  |  |  |
| Infrastru    | cture before t | he submission of this | nications received from the De<br>tender offer, amending the tende<br>ditional pages if more space is re | er documents, nave been take |  |  |  |  |  |
|              | Date           |                       | Title or Deta  | ils                          |  |  |  |  |  |
| 1.           |                |                       |  |                              |  |  |  |  |  |
| 2.           |                |                       |  |                              |  |  |  |  |  |
| 3.           |                |                       |  |                              |  |  |  |  |  |
| 4.           |                |                       |  |                              |  |  |  |  |  |
| 5.           |                |                       |  |                              |  |  |  |  |  |
| 6.           |                |                       |  |                              |  |  |  |  |  |
| 7.           |                |                       |  |                              |  |  |  |  |  |
| 8.           |                |                       |  |                              |  |  |  |  |  |
| 9.           |                |                       |  |                              |  |  |  |  |  |
| 10.          |                |                       |  |                              |  |  |  |  |  |
| 11.          |                |                       |  |                              |  |  |  |  |  |
| 12.          |                |                       |  |                              |  |  |  |  |  |
| 13.          |                |                       |  |                              |  |  |  |  |  |
|              |                |                       |  |                              |  |  |  |  |  |
|              | Name of Ten    | derer                 | Signature  | Date                         |  |  |  |  |  |

Effective date: 20 September 2021

Signature

Name of Tenderer

Version: 1.2

Date



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

| Project title: | DCS: SUPPLY AN<br>BETHULIE PRISO |               | UP POWER GENERATOR AT |
|----------------|----------------------------------|---------------|-----------------------|
| Tender no:     | BL23/008                         | Reference no: | 4/2/1/1/1/35/6705     |

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.

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

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

| Name of organisation: |  |  |  |
|-----------------------|--|--|--|
|                       |  |  |  |



Date:

# **DECLARATION – EPWP PROGRAMME**

| I               | from company   |
|-----------------|--|
| Hereb           | y Undertake To Comply To:  |
| 1.              | LABOUR INTENSIVE CONSTRUCTION METHODS (LIC)  |
|                 | 1.1 Comply To Implementation Of LIC BOQ Items Specified Elsewhere In The Tender Documents.   |
| 2.              | RECRUITMENT AND PLACEMENT OF EPWP NYS PARTICIPANTS   |
|                 | 2.1 Recruitment, Placement And Exposure Training Of 25 (Twenty Five) Participants  |
|                 | 2.2 Comply To EPWP BOQ, Specifications And Code Of Good Practice   |
| 3.              | RECRUITMENT AND PLACEMENT OF LOCAL LABOURERS   |
|                 | 3.1 Recruitment And Placement Of Local Labourers   |
|                 | 3.2 Comply With Applicable Wage Order/Determination or Agreement, In Terms of Labour Relations Act or Wage Act   |
| 4.              | COMPLY TO EPWP MONTHLY REPORTING REQUIREMENTS  |
|                 | Monthly prepare and submit below EPWP reports attached to monthly payments certificate:  |
|                 | <ul> <li>4.1 All Employees and EPWP Participants Contracts</li> <li>4.2 All Employees and EPWP Participants Certified SA ID Copies</li> <li>4.3 All Employees and EPWP Attendance Register</li> <li>4.4 All Employees and EPWP Proof of Payment</li> <li>4.5 EPWP Reports Populated on Standard Templates</li> </ul> |
| 5.              | PENALTIES FOR NON COMPLIANCE   |
| Ackno<br>Partic | owledge Non Compliance Penalty of R3000-00 (Three thousand rand) Per Month Per<br>ipant  |
| Signe<br>Direc  | ed by :<br>tor of the Company  |
| Comp            | pany name :  |



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

# Tender no:

# DECLARATION

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

- The information and particulars contained in this Affidavit are true and correct in all respects;
- 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;
- 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:

က

- 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;
- 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

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| Name of Tenderer      |   |                  |                 |  |                      | EME' 🗆 QSE'                              | ☐ EME¹ ☐ QSE² ☐ Non EME/QSE (ti  |
|-----------------------|---|------------------|-----------------|--|----------------------|--|--|
| 1. LIST ALL PROP      | LIST ALL PROPRIETORS, MEMBERS OF                  | R SHAREHOLD      | ERS BY NAME, II | S OR SHAREHOLDERS BY NAME, IDENTITY NUMBER, CITIZENSHIP AND DESIGNATED GROUPS. | S, CITIZENSHIP A     | ND DESIGNATE                             | D GROUPS.  |
| Name and Surname<br># | Identity/<br>Passport number<br>and Citizenship## | Percentage owned | Black           | Indicate if<br>youth   | Indicate if<br>woman | Indicate if<br>person with<br>disability | Indicate if living<br>Rural (R) / Unde<br>Developed Area (U<br>Township (T) / Ur |
| <del>-</del>          |   | %                | ☐ Yes ☐ No      | ☐ Yes ☐ No   | ☐ Yes ☐ No           | ☐ Yes ☐ No                               | □ R □ UD □ T   |
| 2.                    |   | %                | ☐ Yes ☐ No      | ☐ Yes ☐ No   | ☐ Yes ☐ No           | ☐ Yes ☐ No                               |  |
| 3.                    |   | %                | ☐ Yes ☐ No      | ☐ Yes ☐ No   | ☐ Yes ☐ No           | ☐ Yes ☐ No                               | □ R □ UD □ T   |
| 4.                    |   | %                | ☐ Yes ☐ No      | ☐ Yes ☐ No   | ☐ Yes ☐ No           | ☐ Yes ☐ No                               | □ R □ UD □ T   |
| 5.                    |   | %                | ☐ Yes ☐ No      | ☐ Yes ☐ No   | ☐ Yes ☐ No           | ☐ Yes ☐ No                               | □R □ UD □ T  |
| 9.                    |   | %                | ☐ Yes ☐ No      | ☐ Yes ☐ No   | ☐ Yes ☐ No           | ☐ Yes ☐ No                               | □R □ UD □T   |
| 7.                    |   | %                | ☐ Yes ☐ No      | ☐ Yes ☐ No   | ☐ Yes ☐ No           | ☐ Yes ☐ No                               | □R □ UD □T   |
| 8.                    |   | %                | ☐ Yes ☐ No      | ☐ Yes ☐ No   | ☐ Yes ☐ No           | ☐ Yes ☐ No                               | □R □ UD □ T  |
| 9.                    |   | %                | ☐ Yes ☐ No      | ☐ Yes ☐ No   | ☐ Yes ☐ No           | ☐ Yes ☐ No                               | □R □ UD □ T  |
| 10.                   |   | %                | ☐ Yes ☐ No      | ☐ Yes ☐ No   | ☐ Yes ☐ No           | ☐ Yes ☐ No                               | □R □ UD □ T  |
| 11.                   |   | %                | ☐ Yes ☐ No      | ☐ Yes ☐ No   | ☐ Yes ☐ No           | ☐ Yes ☐ No                               | □R □ UD □ T  |
| 12.                   |   | %                | ☐ Yes ☐ No      | ☐ Yes ☐ No   | □ Yes □ No           | ☐ Yes ☐ No                               | □ R □ UD □ T   |

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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>&</sup>lt;sup>1</sup> EME: Exempted Micro Enterprise <sup>2</sup> QSE: Qualifying Small Business Enterprise

# T2.2 Returnable Schedules that will be incorporated into the contract



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

| Project title:  | Bethulie DCS: Impleme generator | ntation of emergend | ey of back-up power supply |
|---|---------------------------------|---------------------|----------------------------|
| Tender no:  | BL23/008                        | Reference no:       | 4/1/1/1/35/6705            |
|   |                                 |                     |                            |
| Name of Electrical Cont                               | ractor:                         |                     |                            |
| Address:  |                                 |                     |                            |
|   |                                 |                     |                            |
|   | ·<br>                           |                     |                            |
|   |                                 |                     | ,                          |
|   |                                 |                     |                            |
| Electrical Contractor requestion Department of Labour | gistration number at the        |                     |                            |
|   | <u></u>                         |                     |                            |
|   |                                 |                     |                            |
|   |                                 |                     |                            |
| 4000  |                                 |                     |                            |
| Name of Tendere                                       | er   Sign                       | ature               | Date                       |

# <u>Supplementary Mechanical or Security</u> <u>Work, Material and Equipment Schedules</u>



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

| Project title: | DCS: SUPPLY AND INSTA<br>BETHULIE PRISON | ALLATION OF BACK UP F | POWER GENERATOR AT |
|----------------|--|-----------------------|--------------------|
| Tender no:     | BL23/008                                 | Reference no:         | 4/2/1/1/1/35/6705  |

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:

$$A = V (\underline{Z} - 1)$$

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

# Part C1: Agreement and Contract Data

**C1.2 Contract Data** 



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

| Project title: | DCS: SUPPLY AND INSTALLATION BACK UP POWER GENERATOR |
|----------------|--|
|                |  |

| Tandari                   | BL23/008 |         |               |                 |
|---------------------------|----------|---------|---------------|-----------------|
| Tender /<br>Quotation no: | BL23/006 | WCS no: | Reference no: | 4/1/1/1/35/7605 |

| PART 1: DATA PROVIDED BY THE EMPLOYER  |
|--|
| CONDITIONS OF CONTRACT   |
| 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="https://www.saice.org.za">www.saice.org.za</a> |
| 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.                    |

# **CONTRACT SPECIFIC DATA**

The following contract specific data, referring to the General Conditions of Contract for Construction Works, Second Edition, 2010, are applicable to this Contract:

| 2010, are ap | plicable to this Contract:   |
|--------------|--|
| CLAUSES      | COMPULSORY DATA  |
| 1.1.1.8      | Amend Clause 1.1.1.8 to include the word "rights" to read as follows:  |
|              | "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.  |
| 1.1.1.13     | Amend Clause 1.1.1.13 as follows, clarify when the defects liability period starts:  |
|              | "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. |
|              | Defects liability period is: 12 months.  |
| 1.1.1.14     | The time for achieving Practical Completion of the whole of the works is: <b>6 Months</b> measured from the Commencement Date. The time thus stated includes special non-working days and the year-end break.  |
| 5.14.7       | or, if Practical Completion in portions is required,   |
|              | The times for achieving Practical Completion for the portions as set out in the Scope of Works are <i>mutatis mutandi</i> :  |
|              | For portion 1 within   |
|              | For portion 2 within   |
|              | For portion 3 within   |

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".

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For Internal & External Use

Effective date 27 July 2022

Version: 2022/03



|          | For portion 4 within  |
|----------|---|
|          | (followed by further portions as required)  |
|          | The time for achieving Practical Completion of the whole of the Works is: 6 Months, measured from the Commencement Date. The time thus stated includes special non-working days and the year-end break.                               |
| 1.1.1.15 | The name of the Employer is:  |
|          | The Government of the Republic of South Africa in its Department of Public Works and Infrastructure   |
| 1.1.1.16 | The name of the Engineer is:  |
|          | Mustapha Cachalia Engineering cc  |
| 1.1.1.26 | The Pricing Strategy is a: Re-measurement Contract.   |
| 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:   |
|          | "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  | Employer's address: Physical Address: National Department of Public Works and Infrastructure 18 President Brandt Street, Bloemfontein 9301  Postal Address: Private Bag X20605 Bloemfontein   |
|          | 9300 Facsimile: N/A   |
|          |   |
| -        | Telephone: 060 748 9004  Engineer's address:  |
|          | Physical Address: 41 Schnehage Avenue Bloemfontein 9301   |
|          | Postal Address: PO Box 72314 Parkviewds 2122  |
|          | Facsimile: 0861 112 324   |
|          | Telephone: 078 459 8618   |
| 1.3.4    | Not applicable to this Contract.  |



Tender no: Insert Number and press "Tab"Insert Number and press "Tab"

| 1.3.5 | Repla | ace Clause 1.3.5 with the following provisions:  |
|-------|-------|--|
|       | (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.                                 |
|       | (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. |
|       | (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.   |
|       | (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.   |
|       | (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.   |
|       | (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.   |
| 3.1.3 | 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:  |
|       |       | (a) Appointment of nominated Sub-contractors – clause 4.4.3;   |
|       |       | <ul><li>(b) Granting of an extension of time and/or ruling on claims associated with claims for extension of<br/>time – clauses 5.12.3, 10.1.5;</li></ul>  |
|       |       | <ul><li>(c) Acceleration of the rate of progress and determination of the cost for payment of such acceleration<br/>– clause 5.12.4;</li></ul>   |
|       |       | (d) Rulings on claims and disputes – clauses 10.1.5, 10.2.3 and 10.3.3;  |
|       |       | (e) Suspension of the Works – clause 5.11.1;   |
|       |       | (f) Final Payment Certificate – clause 6.10.9;   |
|       |       | (g) Issuing of mora notices to the Contractor – clauses 9.1.1, 9.1.2.1 and 9.2.1;  |
|       |       | (h) Cancellation of the contract between the Employer and Contractor – clauses 9.1.1, 9.1.2.1 and<br>9.2.1.  |



|         | 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.   |
|---------|---|
|         | 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 mutatis mutandis be as stated in clause 10.1.4.  |
|         | 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:   |
|         | Clause 6.10.9 – Amend to read as follows:   |
|         | 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). |
|         | Clause 10.1.5 – Amend to read as follows:   |
|         | 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.  |
|         | 5. Insert the following under 3.1.3:  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.                   |
| 3.2.2.1 | Amend Clause 3.2.2.1 to insert the word "Plant" to read as follows:   |
|         | 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.  |
| 3.2.3.2 | Amend Clause 3.2.3.2 to insert the word "Plant" to reads as follows:  |
|         | 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:  |
|         | 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   |



# Tender no:

| 4.8.2.2 | Amend Clause 4.8.2.2 to include "Employer" and "contractors", as follows:  |
|---------|--|
|         | 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:   |
|         | Health and Safety Plan (Refer to Clause 4.3) Initial programme (Refer to Clause 5.6) Security (Refer to Clause 6.2) Insurance (Refer to Clause 8.6) insert other requirements insert other requirements insert other requirements  |
| 5.3.2   | The time to submit the documentation required before commencement with Works execution is: 21 days.  |
| 5.4.2   | The access to, and possession of, the Site referred to in Clause 5.4.1 shall be <b>enter "exclusive" or "not exicusive"</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:   |
|         | Insert an exposition of limitation.  |
| 5.8.1   | The non-working days are: Saturdays and Sundays  |
|         | The special non-working days are:  |
|         | (1) Public Holidays;   |
|         | (2) The year-end break commencing on 16 December until the Sunday preceding the first working Monday of January of the succeeding year.  |
| 5.9.1   | Amend Clause 5.9.1 as follows:   |
|         | 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: R 600 per day  |
|         | or, if completion in portions is required,   |
|         | The penalty for failing to complete portion 1 of the Works is: R per day.  |
|         | The penalty for failing to complete portion 2 of the Works is: <b>R</b> per day.   |
|         | The penalty for failing to complete portion 3 of the Works is: <b>R per day</b> .  |
|         | The penalty for failing to complete portion 4 of the Works is: <b>R</b> per day.   |
|         | Followed by further portions as required.  |
|         | The penalty for failing to complete the whole of the works is: R 600 per day.  |

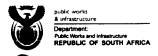


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| 5.14.1    | Amend the second paragraph of Clause 5.14.1 as follows:   |
|-----------|---|
|           | When the Works are about to reach the said stage, the Contractor shall, in writing, request a Certificate of Practical Completion and the Engineer 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 14th day after the contractor requested the Certificate of Practical Completion. |
| 5.16.1    | Amend Clause 5.16.1 to delete the proviso in the third paragraph of this clause.  |
| 5.16.2    | Amend Clause 5.16.2 as follows:   |
|           | 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.  |
| 5.16.3    | The latent defect period for all works is: 5 years.   |
| 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     | Amend Clause 6.2.3 as follows:  |
|           | 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.   |
| 6.5.1.2.3 | The percentage allowance to cover overhead charges is:  |
|           | 33%, except on material cost where the percentage allowance is 10%.   |
| 6.8.2     | Contract Price Adjustment (CPA) will be applicable: NO.   |
|           | If CPA is indicated as 'Yes" above the value of payment certificates is to be adjusted by a Contract Price Adjustment Factor:   |
|           | The value of the certificates issued shall be adjusted in accordance with the Contract Price Adjustment Schedule with the following values:   |
|           | The value of "x" is 0.15.   |
|           | The values of the coefficients are:  a = 0.25. (Labour)  b = 0.3 (Contractor's equipment)  c = 0.3 (Material)  d = 0.15 (Fuel)  |
|           | The values of the coefficients for "Repair and Maintenance Project" (RAMP) contracts are:  a = 0.35 (Labour)  b = 0.20 (Contractor's equipment)  c = 0.35 (Material)  d = 0.10 (Fuel)   |



| 6.8.     | The urban area nearest the Site is <b>Bloemfontein</b> . (Select urban area from Statistical News Release, P0141, Table 7.1.)  |
|----------|--|
|          | The applicable industry for the Producer Price Index for materials is <b>Electrical Engineering</b> . (Select the applicable industry from Statistical News Release, P01421, Table 11.)  |
|          | The area for the Producer Price Index for fuel is <b>Bloemfontein</b> . (Select the area from Statistical News Release, P01421, Table 12.)   |
|          | The base month is N/A. (The month prior to the closing of the tender.)   |
| 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: 85 %.   |
| 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   | Replace Clause 6.10.5 with the following:  |
|          | 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, 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.  |
|          | 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), 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. |
|          | 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), 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 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    | Insert the following at the end of Clause 7.9.1:   |
|          | 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.   |
| 8.2.2.1  | Insert the following as a second paragraph to Clause 8.2.2.1:  |
|          | 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.  |



| 8.4.3     | Insert a new Clause 8.4.3 as follows:  |
|-----------|--|
|           | 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.  |
| 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: Nil  |
| 8.6.1.1.3 | The amount to cover professional fees for repairing damage and loss to be included in the insurance sum is: Nil  |
| 8.6.1.3   | Amend Clause 8.6.1.3 to delete reference to limit of indemnity, to read as follows:  |
|           | 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. |
| 8.6.1.5   | Public liability insurance to be effect by the Contractor to a minimum value of:   |
|           | R5 million   |
|           | or   |
|           | R insert amount in figures (and in words)  |
|           | With a deductible not exceeding 5% of each and every claim.  |
|           | 2. Support insurance is to be effected by the Contractor to a minimum value of:  |
|           | R insert amount in figures (and in words)  |
|           | With a deductible not exceeding 5% of each and every claim.  |
| 8.6.5     | Amend Clause 8.6.5 as follows:   |
|           | 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:   |
|           | 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".   |
|           | HIGH RISK INSURANCE  |
|           | 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:  |



|       | <del></del>           |  |
|-------|-----------------------|--|
| 3.6.  | (1)                   | Damage to the Works  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.  |
|       |                       | 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.   |
|       | (2)                   | Injury to Persons or Loss of or damage to Properties   |
|       | ,                     | 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.   |
|       |                       | 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.   |
|       | (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.   |
|       | (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 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 | Ame                   | nd Clause 9.1.4 as follows:  |
|       | not cost              | e circumstances referred to in Clauses 9.1.1, 9.1.2 or 9.1.3 (provided that the circumstances in 9.1.3 is due to the fault of the Contractor, his employees, contractors or agents), and whether or not the Contract rminated under the provisions of this Clause, the Contractor shall be entitled to payment of any increased of or incidental to the execution of the Works which is specifically attributable to, or consequent upon the imstances defined in Clauses 9.1.1, 9.1.2 or 9.1.3;   |
| 9.1.5 | Ame                   | nd Clause 9.1.5 as follows:  |
|       | is no<br>by th<br>mad | e Contract is terminated on any account in terms of this Clause (provided that the circumstances in 9.1.3 of due to the fault of the Contractor, his employees, contractors or agents), the Contractor shall be paid the Employer (insofar as such amounts or items have not already been covered by payments on account to the Contractor) for all measured work executed prior to the date of termination, the amount (without payable in terms of the Contract and, in addition:  |
| 9.1.6 | This                  | Clause is not applicable to this Contract.   |



| 9.2.1.3.8 | Insert a new Clause 9.2.1.3.8 as follows:  |
|-----------|--|
|           | 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:   |
|           | 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:  |
|           | 9.2.4.1 An amount not exceeding 10% of the Contract Sum;   |
|           | 9.2.4.2 10% of the value of incomplete work; or  |
|           | 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:   |
|           | 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 revest 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  |
|           | 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":   |
|           | 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:   |
|           | 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:  |
|           | 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:  |
|           | 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.   |



| 10.                    | Amend Clause 10.3.2 as follows to replace "adjudication" with "court":   |
|------------------------|--|
|                        | 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:   |
|                        | 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:  |
|                        | 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 or 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":  |
|                        | 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 |

For Internal & External Use



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



| •       | PART 2: DATA PROVIDED BY THE BIDDER  |                               | _ <del>.</del>    |                                       |
|---------|--|-------------------------------|-------------------|---------------------------------------|
| 1.1.1.9 | The name of the Bidder is:   |                               |                   |                                       |
| 1.2.1.2 | The address of the Bidder is:  |                               |                   |                                       |
|         | Postal address:  |                               |                   |                                       |
|         | Post   |                               |                   |                                       |
|         | Tel: Fax:  |                               |                   |                                       |
| i       | TAX / VAT Registration No:   |                               |                   |                                       |
|         | Physical address:  |                               |                   |                                       |
|         | Post   |                               |                   |                                       |
|         | E-mail address:  |                               |                   |                                       |
| 6.2.1   | The security to be provided by the Contractor shall be one of the following  | ng:                           |                   |                                       |
|         | (a) Cash deposit of 10 % of the Contact Sum (excl. VAT)  | ☐ YES                         | or                | □ NO                                  |
|         | (b) Variable performance guarantee of 10 % of the Contract Sum (excl. VAT)   | ☐ YES                         | or                | □ №                                   |
|         | (c) Retention of 10 % of the value of the Works (excl. VAT)  | ☐ YES                         | or                | □ NO                                  |
|         | (d) Cash deposit of 5 % of the Contract Sum (excl. VAT) plus retention of 5 % of the value of the Works (excl. VAT)  | ☐ YES                         | or                | □ NO                                  |
| :       | (e) Performance guarantee of 5 % of the Contract Sum (excl. VAT) plus retention of 5 % of the value of the Works (excl. VAT)   | ☐ YES                         | or                | □ NO                                  |
|         | NB: Guarantees submitted must be issued by either an insurance of the Insurance Act [Long-Term Insurance Act, 1998 (Act 52 of 1998) (Act 53 of 1998)] or by a bank duly registered in terms of the Bank pro-forma referred to above. No alterations or amendments of the accepted. | or Short-Ter<br>s Act, 1990 ( | m Inst<br>(Act 94 | ırance Act, 1998<br>I of 1990) on the |

# C1.3 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

To: National Department of Public Works
Private Bag X20605
Bloemfontein
9301

With reference to the contract between

Sir,

1.

2.

3.

(a)

or

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

| ******                 | (hereinafter referred   |
|------------------------|---|
| Work<br>No, 1<br>(here | the "contractor") and the Government of the Republic of South Africa in its Department of Public is and Infrastructure (hereinafter referred to as the "employer"), Contract/Tender No: / Tender for the BETHULIE DCS: IMPLEMENTATION OF EMERGENCY BACK UP POWER SUPPLY binafter referred to as the "contract") for the sum of R , ( ), (hereinafter referred to as contract sum"). |
| I/W                    | e,  |
| in my                  | y/our capacity as and hereby  |
| <b>amo</b><br>fulfilr  | (hereinafter referred to the "guarantor") advise that the guarantor holds at the employer's disposal the sum of R insertunt, (insert amount in words) being 10% of the contract sum (excluding VAT), for the due ment of the contract.  |
| I/W                    | e 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 <b>certificate of completion</b> of works is issued, the <b>guarantor</b> will be liable in terms of this guarantee to the maximum amount of 10% of the <b>contract sum</b> (excluding VAT);  |
| (b)                    | The <b>guarantor</b> 's liability shall reduce to 5 % of the <b>value of the works</b> (excluding VAT) as determined at the date of the last <b>certificate of completion</b> of works, subject to such amount no exceeding 10% of the <b>contract sum</b> (excluding VAT);   |
| (c)                    | This guarantee shall expire on the date of the last final approval certificate.   |

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 "Tendere" or "Tenderer" Page 1 of 2
For Internal & External Use Effective date: 20 September 2021 Version: 2.1

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):

the contractor has failed or neglected to comply with the terms and/or conditions of the contract;



# Ten 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 aforegoing, 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.
- This guarantee shall not be interpreted as extending the guarantor's liability to anything more than payment of the amount guaranteed.

| SIGN | IED AT   | ON THIS                                | DAY OF                          | 20                        |
|------|--|--|---------------------------------|---------------------------|
| AS V | VITNESS  |  |                                 |                           |
| 1.   |  |  |                                 |                           |
| 2.   |  | By and on b                            | nehalf of                       |                           |
|      |  |  |                                 |                           |
|      |  | -                                      | name and physical add           | lress of the guarantor)   |
|      |  | NAME:                                  |                                 |                           |
|      |  | CAPACITY:<br>(duly autho<br>Annexure A | rised thereto by resol          | ution attached marked     |
|      |  | DATE:                                  |                                 |                           |
| A.   | No alterations and/or additions of t                                   | he wording of this for                 | m will be accepted.             |                           |
| В.   | The physical address of the guara domicilium citandi et executandi, fo |  |                                 | parded as the guarantor's |
| C.   | This GUARANTEE must be returne   | d to:                                  |                                 |                           |
|      | formation and "Did" or Didder" horsin an                               |  | ntation shall be construed to h |                           |





# **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

To: National Department of Public Works Private Bag X20605 Bloemfontein 9301

Sir,

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

|  | einafter   |
|--|--|
| erred to as the "contractor") and the Government of the Republic of South Africa in its Department works and Infrastructure (hereinafter referred to as the "employer"), Contract/Tender, for the BETHULIE DCS: IMPLEMENTATION OF EMERGENCY BACK UP POWER Streenafter referred to as the "contract"), for the sum of R ( ), (hereinafter referred to as the "contract").   | der No:<br>U <i>PPLY</i>                             |
| We,  |  |
| my/our capacity asand I  | hereby   |
| resenting (hereinafter referred to   | as the   |
| presenting (hereinafter referred to uarantor") advise that the guarantor holds at the employer's disposal the sum of R insert as sert amount in words) being 5% of the contract sum (excluding VAT), for the due fulfillmentact.   | mount,   |
| uarantor") advise that the guarantor holds at the employer's disposal the sum of R <i>insert at</i> sert amount in words) being 5% of the contract sum (excluding VAT), for the due fulfillment  | mount, It of the It causa against rselves written    |
| parantor") advise that the guarantor holds at the employer's disposal the sum of R insert as sert amount in words) being 5% of the contract sum (excluding VAT), for the due fulfillment intract.  The guarantor hereby renounces the benefits of the exceptions non numeratae pecunia; non biti; excussionis et divisionis; and de duobus vel pluribus reis debendi which could be pleaded a enforcement of this guarantee, with the meaning and effect whereof I/we declare myself/ou be conversant, and undertake to pay the employer the amount guaranteed on receipt of a | mount, It of the In causa against rselves written ): |

procedures provided for in the contract, the said demand can be made by the employer at any stage

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.

4.

prior to the expiry of this guarantee.

#### Construction Guarantee - GCC

DPW-10.4 (EC):

**Fixed** 

GCC (2010) 2<sup>nd</sup> Edition 2010

render No: insert Contract / Tender No

- 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 aforegoing, any compromise, extension of the construction period, indulgence, release or variation of the contractor's obligation shall not affect the validity of this guarantee.
- The guarantor reserves the right to withdraw from this guarantee at any time by depositing the 6. guaranteed amount with the employer, whereupon the guarantor's liability ceases.
- This guarantee is neither negotiable nor transferable, and 7.
  - must be surrendered to the guarantor at the time when the employer accounts to the guarantor (a) in terms of clause 4 above, or
  - shall lapse on the date of the last certificate of completion of works. (b)
- This guarantee shall not be interpreted as extending the guarantor's liability to anything more than the 8. payment of the amount guaranteed.

| SIGNE | ED AT  | ON THIS                                     | DAY OF                  | 20                     |
|-------|--|---|-------------------------|------------------------|
| AS W  | ITNESS   |   |                         |                        |
| l.    |  |   |                         |                        |
| 2.    |  | ···   |                         |                        |
|       | By and on behalf of  |   |                         |                        |
|       |  |   |                         |                        |
|       |  | (insert the name                            | e and physical addres   | s of the guarantor)    |
|       |  | NAME:                                       |                         |                        |
|       |  | CAPACITY:<br>(duly authorise<br>Annexure A) | d thereto by resolution | on attached marked     |
|       |  | DATE:                                       |                         |                        |
| A.    | No alterations and/or additions of the v                                       | wording of this form                        | will be accepted.       |                        |
| В.    | The physical address of the guarantor domicilium citandi et executandi, for al |   |                         | led as the guarantor's |
| C.    | This GUARANTEE must be returned to   |   |                         |                        |

Part C2: Pricing Data

**C2.1 Pricing Instructions** 



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

|                        | DCS SUPPLY AN<br>BETHULIE PRISC |               | UP POWER GENERATOR AT |
|------------------------|---------------------------------|---------------|-----------------------|
| Tender / Quotation no: | BL23/008                        | Reference no: | 4/1/1/35/6705         |

## **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**

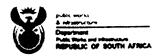
Where Provisional sums or Prime Cost sums are provided for items in the Bill of Quantities, payment for the work done under such items will be made in accordance with Clause 45 of the General Conditions of Contract 2004. The Employer reserves the right, during the execution of the works, to adjust the 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.

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 Any reference to words "Bid" or Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the Page 1 of 9 words "Tender" or "Tenderer".



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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

Tender No: PG-02.1 (EC) Pricing Assumptions – GCC GCC (2010) 2nd Edition 2010

the Tender Data the Tenderer may be asked to reconsider any such rates which the Employer may ≰egard 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.

Tender No: PG-02.1 (EC) Pricing Assumptions - GCC GCC (2010) 2nd Edition 2010

#### 2.1.9 CONTRACT DOCUMENTS

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 = Prime cost sum

**PCsum** 

Prov sum = Provisional sum

m³.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.

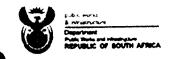
The contractor is to note that no payment will be made for materials stored off site and in the case of materials being stored on site, payment will only be made for such materials on condition that they have not been delivered to the site prematurely, a tax invoice and proof of payment (ownership) is 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 PREFERENCIAL PROCUREMENT RGULATIONS 2017

30% Mandatory subcontracting is insert "appliacble" or "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 insert "appliacble" or "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.



Tender No: PG-02.1 (EC) Pricing Assumptions – GCC GCC (2010) 2nd Edition 2010

MINIMUM TARGETED LOCAL BUILDING MATERIAL SUPPLIERS CONTRACT PARTICIPATION GOAL

The Minimum Targeted Local Building Material Suppliers CPG is insert "appliacble" or "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 *insert "appliacble"* or "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 insert "appliacble" or "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 insert "appliacble" or "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.

Tender No: PG-02.1 (EC) Pricing Assumptions – GCC GCC (2010) 2nd Edition 2010

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

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

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 remeasuarble item.

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

Contract amount

R65 700 000

Contract duration CSDG

12 Months 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<br>Cost /<br>Learner /<br>Quarter | Notional<br>cost/learner/year | Total Notional<br>Cost over 12<br>months Contract |
|--|--------------------|--|-------------------------------|---|
| Method 2: Workplace learning opportunities, with unemployed TVET graduates | 1                  | R23 000                                    | R92 000                       | R92 000   |
| Method 3: Candidacy for an unemployed learner with a 3-year qualification  | 1                  | R61 500                                    | R246 000                      | R246 000  |
| Total  | 2                  |  |                               | R338 000  |





#### NATIONAL YOUTH SERVICE TRAINING AND DEVELOPMENT PROGRAMME

The National Youth Service Training and Development Programme is insert "appliacble" or "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 insert "appliacble" or "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.

#### **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 3: Scope of Work

**C3 Scope of Work** 

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

| Project title: | Bethulie Prison: Implementation of Emergency Back-up Power Generator |               |                 |  |  |
|----------------|--|---------------|-----------------|--|--|
| Tender no:     | BL23/008   | Reference no: | 4/1/1/1/35/6705 |  |  |

#### C3. Scope of Works

#### **CONTENTS**

- C3.1 STANDARD SPECIFICATIONS
- C3.2 PROJECT SPECIFICATIONS

#### A: GENERAL

PS-9

- PS-1 PROJECT DESCRIPTION DESCRIPTION OF SITE AND ACCESS PS-2 PS-3 **DETAILS OF CONTRACT** PS-4 CONSTRUCTION AND MANAGEMENT REQUIREMENTS PS-5 CONSTRUCTION PROGRAMME SITE FACILITIES AVAILABLE PS-6 PS-7 SITE FACILITIES REQUIRED REQUIREMENTS FOR ACCOMMODATION OF TRAFFIC PS-8 OCCUPATIONAL HEALTH AND SAFETY
- PS-10 ADVERSE WEATHER CONDITIONS NOTE: This is an example only. Compiler / Designer to provide the applicable contents.
  - **B: AMENDMENTS TO THE PARTICULAR SPECIFICATIONS** Insert amendments to particular sepcifications
- **PARTICULAR SPECIFICATIONS** C3.3 **PGA**

#### **STANDARD SPECIFICATIONS:** C3.4

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:

A - 1986 - GENERAL / D - (etc, to be provide by compiler)

Effective date 26 July 2022 Version: 2022/07



Tender No.:

PG-01.1 (EC) Scope of Works - GCC

GCC (2010): 2<sup>nd</sup> Edition 2010

#### **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.

#### **GENERAL** 3.5.1

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

#### Scope of Work 1.

Supply, delivery and installation of the complete new containerised and silenced emergency diesel alternator generator sets (DA) with ATS, associated switchboards and general electrical work as specified in this document: the entire prison shall be connected to the emergency power supplied by the DA sets through a single change over.

#### AMENDMENTS TO THE STANDARD AND PARTICULAR SPECIFICATION: 3.5.2

#### C3.5.3 PARTICULAR SPECIFICATIONS:

#### STANDARD MINIMUM REQUIREMENTS C3.6

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:

- C3.61 cidb Best Practice: Green Building Certification, No. 34158 Government Gazette, 1 April 2011
- C3.6.2 cidb Standard for Developing Skills through Infrastructure Contracts, No. 36760 Government Gazette, 23 August 2013
- C3.6.3 cidb Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, No 36190 Government Gazette, 25 February 2013
- C3.6.4 Preferential Procurement Policy Framework Act, 2000: Preferential Procurement Regulations, 2017, No. 40553 Government Gazette, 20 January 2017
- C3.6.5 cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts, No. 41237 Government Gazette, 10 November 2017
- C3.6.6 cidb Standard for Minimum Requirements for Engaging Contractors and Sub-Contractors on Construction Works Contracts, No. 41237 Government Gazette, 10 November 2017



3.6.7 cidb Standard for Minimum Requirements for Engaging Contractors and Sub- Contractors on Construction Works Contracts, No. 42021 Government Gazette, 9 November 2018

C3.6.8 cidb Standard for Developing Skills through Infrastructure Contracts, No. 43495 Government Gazette, 3 July 2020

#### C3.7 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:

#### C3.7.1 Minimum Thirty Percent (30%) Mandatory Sub-contracting Contract Participation Goal

MINIMUM THIRTY PERCENT (30%) MANDATORY SUBCONTRACTING TO SMMES: IMPLEMENTATION OF PREFERENCIAL PROCUREMENT RGULATIONS 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 insert applicable percentage, both in words and figures of the tender amount at the time of tender to be sourced from within insert applicable kilometerskm radius of the project site with the intention to maximize use of local SMMEs within insert applicable Ward/s, Municipal District, Town, City, Province,
- (b) SMME's involvement of at least insert applicable percentage, both in words and figures of the Tender Value to be sourced from within insert applicable kilometerskm 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:



Possess relevant accreditation where applicable;

b. Be registered with relevant bodies (CIDB, various Councils, etc.) where applicable;

- Possess necessary capabilities to deliver the sub-contracted work;
- d. Meet the requirements in terms of the stipulated designated groups; and
- 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 insert applicable percentage, both in words and figures 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.

## C3.7.2 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 insert applicable Ward/s, Municipal District, Town, City, Province, and provided that:

- Such materials comply in all respects with the specific requirements of PW371 and SANS (a) specifications,
- The non-availability of such materials shall not adversely affect the desired progress of the (b) specific works,
- The use of such suppliers shall not constitute grounds for any claim for increased cost in (c) respect thereof.
- Materials of at least insert applicable percentage, both in words and figures of the total (d) value of materials purchased excluding VAT to be sourced from within insert applicable kilometerskm radius of the project site,

For Internal & External Use



(e) Material of at least **insert applicable percentage**, **both in words and figures** of the total value of materials purchased excluding VAT to be sourced from within **insert applicable kilometerskm** radius 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 prorate 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.

### C3.7.3 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

- 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 **insert applicable Ward/s**, **Municipal District**, **Town**, **City**, **Province**, 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 insert applicable percentage, both in words and figures of the total value of materials purchased excluding VAT to be sourced from within insert applicable kilometerskm of the project site,
- (e) Material of at least **insert applicable percentage**, **both in words and figures** of the total value of materials purchased excluding VAT to be sourced from within **insert applicable kilometerskm** 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 prorate 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.

### C3.7.4 Minimum Targeted Local Labour Skills Development Contract Participation Goal

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 5 of 19
For Internal & External Use Effective date 26 July 2022 Version: 2022/07

#### 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:

- are employed by the principal contractor, sub-contractor or targeted enterprises in the performance of the contract;
- are defined as the target group in the targeting data; and
- 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.

#### C3.7.5 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

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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.

#### C3.7.5.1 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.

#### C3.7.5.2 Management

The contractor shall provide a competent person/s to provide internal mentorship to the Targeted Enterprise/s in the two agreed developmental areas.

#### C3.7.5.3 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

#### C3.7.5.4 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).

#### C3.7.5.5 The Key Personal

The contractor shall appoint an Enterprise Development Co-ordinator and a competent person/s to provide internal mentorship.

#### C3.7.5.6 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.

#### C3.7.5.7 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

#### C3.7.5.8 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.

#### C3.7.5.9 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.

#### C3.7.5.10 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)

#### 3.7.6 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, countersigned 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.

#### C3.7.6.1 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 |            |  |
|-------------|---|------------|--|
| Designation | Description   | (CSDG) (%) |  |
| 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

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

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 remeasuarble item.

- (a) The successful contractor may employ part/full occupational qualification learners, trade (a) qualification learners, work integrated learners or candidates directly or through a Skills Development Agency (SDA), (A1 - List of cidb accredited SDAs).
- The successful contractor must employ at least sixty percent (60%) of the learners from an FET / (b) TVET college should the contractor select to have part/full occupational qualification learners and trade qualification learners contributing to the CSDG.

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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.

#### C3.7.6.2 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, and work integrated learners or 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



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.

(I) 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 Candidates 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.

## C3.7.7 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.

#### C3.7.8 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

#### **GENERIC LABOUR-INTENSIVE SPECIFICATION**

Contractors are referred to the Guidelines for the Implementation of Labour-intensive Infrastructure Projects under the Expanded Publics 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.

|              | nsistency of materials w<br>R MATERIALS                                   | hen profiled<br>COHESIVE | MATERIALS   |
|--------------|---|--------------------------|---|
| CONSISTENCY  | DESCRIPTION   | CONSISTENCY              | DESCRIPTION   |
| Very loose   | Crumbles very easily when scraped with a geological pick.                 | Very soft                | Geological pick head can<br>easily be pushed in as far<br>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. |

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 "Tendere" or "Tenderer".

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|            |  |            | (2010): 2 20::::01: 2  |
|------------|--|------------|--|
| 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 come 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.

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.

Excavation material shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150m.

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 undertaking by sprigging, sodding, or seeding by hand.

#### Stone pitching and rubble concrete masonry

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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

#### C3.8 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.

#### C.3.9 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 <u>Allowances</u> 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)

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 "Tendere" or "Tenderer".

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 $\Box$ PG 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.

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 "Tendere".

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Tender No.:

PG-01.1 (EC) Scope of Works – GCC

GCC (2010): 2<sup>nd</sup> Edition 2010

he 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 led 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<br>Item | Description  | Unit        | Rate    | Quantity | Amount<br>(R) |
|----------------|--|-------------|---------|----------|---------------|
| 5              | Enterprise Development   |             |         |          |               |
| 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        |
|                | Provisional Sum to be carried over to CPG bill of quantities           |             |         |          | 1 660 000     |

"Contract amount" Tender amount excl. allowances and VAT, 130 000 000 CPG Monetary value (5%) to be subcontracted to beneficiaries for 6 500 000

No of enterprises based on the CPG value

Grade 1 / 2 6 GB/CF.FTC

Contract period (months) 24

Note: Rates to be determined by PQS and adjusted to accepted quotation amounts

#### 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.

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 18 of 19 Version: 2022/07

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#### **CPG\_Calculation**

## Table 2: Contracting skills development goals for different classes of engineering and construction

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<br>development goal (CSDG<br>(%) |  |
|---|---|--|--|
| Designation   | Description                                   | 0.05   |  |
| CE  | Civil Engineering                             | 0.25   |  |
| CE and GB   | Civil engineering and General Building        | 0.375  |  |
| EE  | Electrical Engineering works (buildings)      | 0.25   |  |
|   | Electrical Engineering works (infrastructure) | 0.25   |  |
| EP  |   | 0.5  |  |
| GB  | General Building                              | 0.25   |  |
| ME  | Mechanical Engineering works                  | 0.25   |  |
| SB  | Specialist                                    | 0.20   |  |

<sup>&</sup>quot;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<br>Cost /<br>Learner /<br>Quarter | Notional<br>cost / learner<br>/ year | Total Notional<br>Cost over 12<br>months Contract |
|--|--------------------|--|--------------------------------------|---|
| Method 2: Workplace learning opportunities, with unemployed TVET graduates | 2                  | R23 000                                    | R92 000                              | R184 000  |
| Method 3: 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

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# **HIV/AIDS Specification and Schedule**

# Occupational Health and Safety Specification

**Electrical Technical Specification** 



## **OCCUPATIONAL HEALTH AND SAFETY**

# HEALTH & SAFETY SPECIFICATIONS

**FOR** 

BETHULIE DEPARTMENT OF CORRECTIONAL SERVICES IMPLEMENTATION OF EMERGENCY BACK-UP POWER SUPPLY

MANAGED ON BEHALF OF

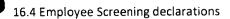
THE NATIONAL DEPARTMENT OF PUBLIC WORKS

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#### attachments:

- 14. Health and safety file compilation and content
- 15. Ssafety and switching procedures for electrical
- 16. COVID 19 Guidelines (These items will be included into the Health and Safety Plan developed by the Appointed service Provider)
  - 16.1 Covid 19 Management plan
  - 16.2 Covid 19 Risk Assessment
  - 16.3 Covid 19 Policy



PPE Issue Register

16.6 Compliance Employees Appointments

16.7 Toolbox Talks

16.8 Safe Work Procedures

16.9 Checklists

16.10 Training Material

16.11 Posters

16.12 Compliance Officer Appointments



#### 1. PREAMBLE

<sup>\*</sup>In terms of Construction Regulation 4(1) (a) of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), 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 there-under. 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 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 suggested that the entire scope of the Labor legislation, including the Basic Conditions of Employment Act be considered as part of the legal compliance system. With reference to this specification document this argument is limited to all health, safety and environmental issues pertaining to the site of the project as referred to here-in. It is reiterated that environmental management can not be disregarded.

Due to the wide scope and definition of construction work, every construction activity and site will be different, and may change even on a daily basis. Therefore, due caution is to be taken 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 determine 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' detailing the key activities to be performed in order to reduce as reasonably 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 40 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.

\*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.

#### \*2. SCOPE OF HEALTH AND SAFETY SPECIFICATION DOCUMENT

The Health and Safety Specifications pertaining to the project; <u>Phase 1 and Phase 2</u>" etc. etc.), cover the subjects contained in the index and is intended to outline the normal as well as any special requirements of the Department pertaining to the health and safety matters (including the environment) applicable to the project in question. 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 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;
- 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.

It must be ensured 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 8 of the Act.

The Occupational Health and Safety Act (Sixth Revised Edition: 16.2 August 2016), 1993 (Act 85 of 1993) in its entirety shall apply to the contract to which this specification document applies. The Construction Regulations promulgated on 18 July 2003 and incorporated into the above Act by Government Notice R 1010, published in Government Gazette 25207 shall apply to any person involved in construction work pertaining to this project, as will the Act read with the Amended Construction Regulation 2014

#### 4. **DEFINITIONS**

"Purpose of the Act" –NB: This information below shall be read with the new Construction Regulations 2017(Sixth Revised Edition: 16.2 August 2016), 1993 (Act 85 of 1993)

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.

"Agent" - Means any person who acts as a representative for a client;

"Client" – Means any person for whom construction work is performed;

"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;

Health and Safety File" -means a file, or other record in permanent form, containing the information required a emplated in the regulations;

"Health and Safety Plan" -means a documented plan which addresses hazards identified and includes safe work procedures to mitigate, reduce or control the hazards identified;

"Health and Safety Specification" —means a documented specification of all health and safety requirements pertaining to the associated works on a construction site, so as to ensure the health and safety of persons;

"Method Statement" -means a document detailing the key activities to be performed in order to reduce as reasonably as practicable the hazards identified in any risk assessment;

"Principal Contractor" –means an employer, as defined in section 1 of the Act who performs construction work and is appointed by the client to be in overall control and management of a part of or the whole of a construction site;

"Risk Assessment" –means a program to determine any risk associated with any hazard at a construction site, in order to identify the steps needed to be taken to remove, reduce or control such hazard.

#### \*5. OCCUPATIONAL HEALTH & SAFETY MANAGEMENT

#### 5.1 Structure and Organization of OH&S Responsibilities

#### 5.1.1. Overall Supervision and Responsibility for OH&S

- \* 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.
- \* 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.
- \* 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).
- \* 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).
- \* All Health and Safety Representatives (SHE-Reps) as per Section 18 of the Act.

#### 5.1.2. Further (Specific) Supervision Responsibilities for OH&S

Several appointments or designations of responsible and /or competent people in specific areas of construction work are required by the Act and Regulations. The following competent appointments, where applicable, in terms of the Construction Regulations are necessary to ensure compliance to the Act, Regulations and Safety Standards.

Required appointments as per the Construction Regulations:-

| Item     | Regulation      | Appointment                                     | Responsible Person   |
|----------|-----------------|---|----------------------|
| <b>}</b> | 4(1)(c)         | Principal contractor for each phase or project  | Client               |
| 2        | 5.(3)(b)        | Contractor                                      | Principal Contractor |
| 3.       | 5(11)           | Contractor                                      | Contractor           |
| 4.       | 6(1)            | Construction supervisor                         | Contractor           |
| 5.       | 6(2)            | Construction supervisor sub-ordinates           | Contractor           |
| 6.       | 6(6)            | Construction Safety Officer                     | Contractor           |
| 7.       | 7(1)            | Person to carry out risk assessment             | Contractor           |
| 8.       | 7(4)            | Trainer/Instructor                              | Contractor           |
| 9.       | 8(1)(a)         | Fall protection planner                         | Contractor           |
| 10.      | 10 (a)          | Formwork & support work supervisor              | Contractor           |
| 11.      | 10(e) + (f)     | Formwork & support work examiner                | Contractor           |
| 12.      | 11(1)           | Excavation supervisor                           | Contractor           |
| 13.      | 11(3)(b)(ii)(b) | Professional engineer or technologist           | Contractor           |
| 14.      | 11(3)(k)        | Explosives expert                               | Contractor           |
| 15.      | 12(1)           | Supervisor demolition work                      | Contractor           |
| 16.      | 12(2) + (3)     | Demolition expert                               | Contractor           |
| 17.      | 12(11)          | Explosives expert                               | Contractor           |
| 18.      | 14(2)           | Scaffold supervisor                             | Contractor           |
| 19.      | 15(1)           | Suspended platform supervisor                   | Contractor           |
| 20.      | 15(2)(c)        | Compliance plan developer                       | Contractor           |
| 21.      | 15(8)(c)        | Suspended platform expert                       | Contractor           |
| 22.      | 15(13)          | Outrigger expert                                | Contractor           |
| 23.      | 17(8)(a)        | Material hoist inspector                        | Contractor           |
| 24.      | 18(1)           | Batch plant supervisor                          | Contractor           |
| 25.      | 18(7)           | Batch plant operator                            | Contractor           |
| 26.      | 19(2)(b)        | Power tool expert                               | Contractor           |
| 27.      | 19.2 (g) (i)    | Power tool controller                           | Contractor           |
| 28.      | 20(f)           | Tower crane operator                            | Contractor           |
| 29.      | 21(1)(d)(i)     | Construction vehicle and mobile plant operator  | Contractor           |
| 30.      | 21(1)(j)        | Construction vehicle and mobile plant inspector | Contractor           |
| 31.      | 22(d)           | Temporary electrical installations inspector    | Contractor           |
| 32.      | 22 (e)          | Temporary electrical installations controller   | Contractor           |
| 33.      | 26 (a)          | Stacking and storage supervisor                 | Contractor           |
| 34.      | 27 (h)          | Fire equipment inspector                        | Contractor           |

This list may be used as a reference or tool to determine which components of the Act and Regulations would be applicable to a particular site, as was intended under the Chapter "Preamble" above. (Page 4)

#### 5.2 Communication & Liaison

- 5.2.1 OH&S Liaison between the Employer, the Principal Contractor, the other Contractors, the Designer and other concerned parties will be through the H&S Committee as per the procedures determined by the H&S Committee.
- 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

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. Only if formally agreed to by way of the written agreement in this regard between the "owner(s)" and consultant and /or between the "owner(s)" and the contractor(s), will these assumptions be relinquished in favor of the position agreed upon between the relevant parties.

(ii) 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. 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. (Ordinary / sub) Contractors are required to operate under the scrutiny and control (in terms of all health and safety measures which are covered in the Construction Regulations) of the Principal Contractor. Where for the work the Principal Contractor will have to execute himself, practical health and safety measures are applicable, he will also be subject to the relevant requirements with which (ordinary / sub) Contractors have to comply. The Principal Contractor will, however, not have to actually fulfill such requirements in respect of any of the work / functions of any (ordinary / sub) Contractors on the site for which he has been appointed as Principal Contractor. However, he has to monitor / oversee such processes, ensuring that the requirements are complied with and that the required appointments / evaluations / inspections / assessments and tests are done and that the records are duly generated and kept as prescribed in the Construction Regulations. This has to feature clearly in the Principal Contractor's Health and Safety Plan.

#### 7. RESPONSIBILITIES

#### 7.1 Client

- 7.1.1 The Client or his appointed Agent on his behalf will appoint each Principal Contractor for the project in writing for assuming the role of Principal Contractor as intended by the Construction Regulations and determined by the Bills of Quantities.
- 7.1.2 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.
- 7.1.3 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.
- 7.1.4 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

7.2.1 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 Labor of the intended construction work in terms of Regulation 3 of the Construction Regulations. Annexure B of this Specification 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.

The Principal Contractor shall ensure that he is fully conversant with the requirements of this Specification all relevant health and safety legislation. This Specification is not intended to supersede the Act nor the Construction Regulations or any part of either. Those sections of the Act and the Construction Regulations which apply to the scope of work to be performed by the Principal Contractor in terms of this contract (entirely or in part) will continue to be legally required of the Principal Contractor. 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.

- 7.2.3 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.
- 7.2.4 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.
- 7.2.5 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.)
- 7.2.6 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.
- 7.2.7 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.
- 7.2.8 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.
- 7.2.9 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.
- 7.3 Contractor (Responsibilities of ...... in terms of this contract and health and safety specification)

As per 7.2 above as and where applicable or as indicated in the letter of appointment.

#### 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 (**Building Work Specifications**), this amongst all includes for example: (elaborate sufficiently and provide adequate information to give full understanding of all work to be done)

#### 8.1 BUILDING WORK:

#### <u>NB</u>

The scope of shall be red with the Tender Document or bill of Quantities (Part C3: Scope of Works).

#### SCOPE:

#### **EXISTING SINGLE-STOREY BUILDINGS:**



Popper notice shall be given to all persons in and around the building where construction work shall be executed. The building shall occupy during the construction period.

- 2. Notification to the provincial director must be given.
- 3. The contractor and sub-contractors must be registered and in good standing with the compensation fund at all time.
- 4. The contractor shall appoint a full-time competent employee in writing as the construction supervisor.
- 5. Work shall be executed at a height greater than 3 meters.
- 6. Excavation work exceeding 1 meter and more.
- 7. All site work; the contractor must take care of proper <u>sun-protection</u> for all his workmen, woman.
- 8. No work, contractor or sub-contractor shall be allowed to work in in-climate weather.
- 9. No danger tape shall be used on the construction site. All work areas shall proper be brigade.
- 10. Special care must be taken of;-

Contractors using scaffolding shall ensure that such scaffolding, when used, complies with the safety standards are carried out under the supervision of a competent person who has been appointed in writing.

#### 8.2 ELECTRICAL WORK:

#### **ELECTRICAL INSTALLATIONS AND MACHINERY ON CONSTRUCTION SITES:**

Notwithstanding the provisions contained in the Electrical Installation Regulations promulgated by Government Notice No. R.2920 of 23 October 1992 and the Electrical Machinery Regulations promulgated by Government Notice No. R.1953 of August 1988, respectively, as amended.

1. Work shall be medium and low voltage electrical work. The contractor shall given and low voltage registration.

proof of his high

[Notes to the Client, Designer, Project Manager, Architect, and Agent:

add references to the above project and include specific elements identified as the 'Critical Few'. The 'Critical Few' refer to those few or singular elements of the project that have the potential to impact in a major or devastating way on the project as a whole in the event of an accident or incident occurring. (20:80 principle)

Because of the inherent generic nature of the Health and Safety Specifications document, specific relevant information on the project must be provided and it may be necessary to draft the required information under this paragraph on a separate attached document.

If at any time after commencement of the project changes is brought about to the design or construction, sufficient health and safety information and appropriate resources are to be made available to the Principal Contractor to execute the work safely.]

**N.B** The Principal Contractor shall on tendering make provision for the cost of health and safety measures in terms of his/her documented Health and Safety Plan and measures based on these Health and Safety Specifications during the period of the project. Construction Regulation 5(3)(g) determines that potential contractors submitting tenders have made provision for the cost of health and safety measures during the construction process.

THE HEALTH AND SAFETY PLAN IS THEREFORE TO BE INCLUDED WITH THE TENDER DOCUMENTS WHEN TENDERS

THE INVITED FOR THE PROJECT.

#### 9. HEALTH AND SAFETY FILE

The Principal Contractor must, in terms of Construction Regulation 5(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 and Safety File is attached as an addendum to this document.

#### IMPORTANT:

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.

### 10. OH&S GOALS AND OBJECTIVES AND ARRANGEMENTS FOR MONITORING AND REVIEWING OH&S PERFORMANCE

The Principal Contractor is required to maintain a CIFR of at least 8 (See Annexure 3. to this document: "Measuring Injury Experience") and report on this to the Client and/or its Agent on its behalf on a monthly basis.

## 11. 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 (see 4. below "Project/Site Specific Requirements")

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.

#### 12. ARRANGEMENTS FOR MONITORING AND REVIEW

#### 12.1 Monthly Audit by Client and/or its Agent on its behalf

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.

#### 12.2 Other audits and inspections by client and/or its agent on its behalf.

The Client and/or its Agent on its behalf reserves the right to conduct any other ad hoc audits and inspections as it and/or its Agent on its behalf deem necessary.

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.

#### 12.3 Reports

The Principal Contractor is required to provide the Client and/or its Agent on its behalf with a monthly "SHE Risk Management Report".

The Principal Contractor shall report all incidents where an employee is injured on duty to the extent that he/she:

\* dies



becomes unconscious

loses a limb or part of a limb

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:

- \* a major incident occurred
- \* the health or safety of any person was endangered
- \* where a dangerous substance was spilled
- the uncontrolled release of any substance under pressure took place
- \* machinery or any part of machinery fractured or failed resulting in flying, falling or uncontrolled moving objects
- machinery ran out of control,

to the Provincial Director of the Department of Labour (DoL) within seven days and at the same time to the Client and/or its Agent on its behalf.

(Section 24 of the Act & General Administrative Regulation 8.)

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.

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 including the reports contemplated in 12.7, 12.8.2, 15, 16, 17, 21 and 22 below. As soon as the occurrence of any accident/incident of whatever nature comes to the notice of the Principal Contractor, it shall be reported immediately to any of the following:

#### 12.4 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.

#### 12.5 Site Rules and other Restrictions

#### 12.5.1 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, visitors and non-employees upon entering the site shall be issued with the proper Personal Protective Equipment (PPE) as and when necessary.

#### 12.5.2 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 6(6), the Principal Contractor must appoint a competent Emergency Controller who must develop contingency plans for any emergency that may arise on site as indicated by the risk assessments. These must include a monthly practice/testing programmed for the

plans e.g. January: trench collapse, February: flooding etc. and practiced/tested with all persons on site at the time, articipating.



#### **Training**

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.

#### 12.6.1 General Induction Training

All employees of the Principal and other Contractors must be in possession of proof of General Induction training

#### 12.6.2 Site Specific Induction Training

All employees of the Principal and other Contractors must be in possession of Site Specific Occupational Health and Safety Induction training.

#### 12.6.3 Other Training

All operators, drivers and users of construction vehicles, mobile plant and other equipment must be in possession of valid proof of training.

All employees in jobs requiring training in terms of the Act and Regulations must be in Possession of valid proof of training as follows:

Occupational Health and Safety Training Requirements: (as required by the Construction Regulations and as indicated by the Health and Safety Specification Document & the Risk Assessment/s and recommendations by the Health and Safety Committee):

- \* General Induction (Section 8 of the Act)
- \* Site/Job Specific Induction (also visitors) (Sections 8 & 9 of the Act)
- \* Site/Project Manager
- \* Construction Supervisor
- \* OH&S Representatives (Section 18 (3) of the Act)
- \* Training of the Appointees indicated in 12.6.1. & 12.6.2.
- \* Operation of Cranes (Driven Machinery Regulations 18 (11)
- \* Operators & Drivers of Construction Vehicles & Mobile Plant (Construction Regulation 21)
- \* Basic Fire Prevention & Protection (Environmental Regulations 9 and Construction Regulation 27)
- \* As a minimum basic First Aid to be upgraded when necessary (General Safety Regulations 3)
- \* Storekeeping Methods & Safe Stacking (Construction Regulation 26)
- Emergency, Security and Fire Co-coordinator

#### 12.7 Accident and Incident Investigation

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)

The results of the investigation to be entered into the Accident/Incident Register listed above. (General Administrative Regulation 9)

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.

The Principal Contractor is responsible for the investigation of all road traffic 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.

Notwithstanding the requirements of Section 24 of the Act, ALL incidents shall be investigated and reported on in riting, irrespective of whether such incident gave rise to injury or damage.

#### 12.8 H&S Representatives (SHE-Reps) and H&S Committees

#### 12.8.1 Designation of H&S Representatives ('SHE - Reps')

Where the Principal Contractor employs more that 20 persons (including the employees of other Contractors (subcontractors) 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 have to be designated 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.

#### 12.8.2 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 and report thereon to the Principal Contractor, after which these reports shall be consolidated for submission to the Health and Safety Committee.

H&S Representatives must be included in and be part of accident/incident investigations.

H&S Representatives shall be members of at least one H&S Committee and must attend all meetings of that H&S committee.

#### 12.8.3 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, the following Agenda for the first meeting. Thereafter the H&S Committee shall determine its own procedures as per the previous paragraph.

#### Agenda:

- 1) Opening and determining of chairmanship (only when necessary)
- 2) Minutes of Previous Minutes
- 3) Observations
- 4) Program and Safety considerations
- 5) Hygiene
- 6) Housekeeping improvement
- Incidents & Accidents / Injuries
- 8) Registers:
  - a H&S Rep. Inspections
  - b. Matters of First Aid
  - c. Scaffolding
  - d. Ladders
  - e. Excavations
  - f. Portable Electric Equipment
  - g. Fire Equipment
  - h. Explosive Power Tools
  - i. Power Hand tools
  - j. Incident! Report Investigation
  - k. Pressure Vessels
  - Personal Protective Equipment
- 9) Safety performance Evaluations
- 10) Education & Safety promotion program

- 11) First Aid Officials and training in First Aid
- Demarcation of work- /hazardous-/safe areas/walkways
  - Posters and signage
  - 14) Environmental preservation and conservation
  - 15) Specific training programmes
  - 16) General
  - 17) Date of Next Meeting
  - 18) Closing

#### 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:

- \* Clearing & Grubbing of the Area/Site
- \* Site Establishment including:
  - o Office/s
  - O Secure/Safe Storage and storage areas for materials, plant & equipment
  - Ablution facilities
  - Sheltered dining area
  - o Vehicle access to the site
- \* Dealing with existing Structures.
- \* Location of existing Services
- \* Installation & Maintenance of Temporary Construction Electrical Supply, Lighting and Equipment
- \* Adjacent Land uses/Surrounding property exposures
- \* Boundary & Access control/Public Liability Exposures (Remember: the Employer is also responsible for the OH&S of non-employees affected by his/her work activities.)
- \* Health risks arising from neighboring as well as own activities and from the environment e.g. threats by dogs, bees, snakes, lightning, allergies etc.
- \* Exposure to Noise
- \* Exposure to Vibration
- \* Protection against dehydration and heat exhaustion
- Protection from wet & cold conditions
- \* Dealing with HIV/Aids and other diseases as per specific programme provided by the client and/or its Agent on its behalf
- \* Use of Portable Electrical Equipment including:
  - o Angle grinder
  - Electrical Drilling machine
  - Skill saw
- \* Excavations including:
  - o Ground/soil conditions
  - o Trenching
  - o Shoring
  - Drainage
  - o Daily inspections
- \* Welding including:
  - Arc Welding
  - Gas welding
  - Flame Cutting
  - Use of LP Gas torches and appliances
- Loading & Offloading of Trucks
- \* Aggregate/Sand and other Materials Delivery
- \* Manual and Mechanical Handling
- Lifting and Lowering Operations
- Driving & Operation of Construction Vehicles and Mobile Plant including:
  - Trenching machine
  - Excavator
  - Bomag Roller



- Plate Compactor
- o Front End Loader
- Mobile Cranes and the ancillary lifting tackle
- Parking of Vehicles & Mobile Plant
- Towing of Vehicles & Mobile Plant
- \* Use and Storage of Flammable Liquids and other Hazardous Substances the client and/or its Agent on its behalf to be informed of this prior to commencing of the project
- \* Layering and Bedding of trench floor
- Installation of Pipes in trenches
- Backfilling of Trenches
- Protection against Flooding
- Gabion work
- \* Use of Explosives the client and/or its Agent on its behalf to be informed of this prior to commencing of the project
- Protection from Overhead Power Lines
- \* As discovered by the Principal Contractor's hazard identification exercise
- \* As discovered from any inspections and audits conducted by the Client and/or its Agent on its behalf or by the Principal Contractor or any other Contractor on site
- As discovered from any accident/incident investigation.

## 13.1 The following are in particular requirements depending on scope of works and will form a basis for compliance audits.

- 1. Administrative & Legal Requirements
- 2. Education, Training & Promotion
- 3. Public Safety & Emergency Preparedness
- 4. Personal Protective Equipment
- 5. Housekeeping
- 6. Scaffolding, Formwork & Support work
- 7. Ladders
- 8. Electrical Safeguarding
- 9. Emergency/Fire Prevention & Protection
- 10. Excavations & Demolition
- 11. Tools
- 12. Cranes
- 13. Personnel & Material Hoists
- 14. Transport & Materials Handling
- 15. Site Plant & Machinery
- 16. Plant & Storage Yards/Site Workshops Specifics
- 17. Health & Hygiene

## 14. OUTLINED DATA, REFERENCES AND INFORMATION ON CERTAIN AND/OR SPECIFIC OBLIGATORY REQUIREMENTS TO ENSURE COMPLIANCE

14.1 Administrative & Legal Requirements

| OHS Act Section/ Regulation        | ve & Legal Requirements Subject          | Requirements  |
|------------------------------------|--|---|
| Construction. Regulation 3         | Notice of carrying out Construction work | Department of Labour notified Copy of Notice available on Site  |
| General Admin.<br>Regulation 4     | *Copy of OH&S Act (Act<br>85 of 1993)    | Updated copy of Act & Regulations on site. Readily available for perusal by employees.                    |
| COID Act<br>Section 80             | *Registration with Compens. Insurer      | Written proof of registration/Letter of good standing available on Site                                   |
| Construction.  Regulation 4 & 5(1) | H&S Specification & Programmed           | H&S Spec received from Client and/or its Agent on its behalf OH&S programme developed & Updated regularly |

| Section 8(2)(d)            | *Hazard Identification & | Hazard Identification carried out/Recorded   |
|----------------------------|--------------------------|--|
| instruction.               | Risk Assessment          | Risk Assessment and – Plan drawn up/Updated  |
| Kation 7                   |                          | RA Plan available on Site  |
|                            |                          | Employees/Sub-Contractors informed/trained   |
| Section 16(2)              | *Assigned duties         | Responsibility of complying with the OH&S Act assigned to other  |
|                            | (Managers)               | person/s by CEO.   |
| Construction.              | Designation of Person    | Competent person appointed in writing as   |
| Regulation 6(1)            | Responsible on Site      | Construction Supervisor with job description   |
| Construction.              | Designation of Assistant | Competent person appointed in writing as   |
| Regulation 6(2)            | for above                | Assistant Construction Supervisor with job description   |
| Section 17 & 18            | *Designation of Health & | More than 20 employees - one H&S Representative, one additiona   |
| General                    | Safety Representatives   | H&S Rep. for each 50 employees or part thereof.  |
| Administrative             |                          | Designation in writing, period and area of responsibility specified  |
| Regulations 6 & 7          |                          | in terms of GAR 6 & 7  |
|                            |                          | Meaningful H&S Rep. reports.   |
|                            |                          | Reports auctioned by Management.   |
| Section 19 & 20            | *Health & Safety         | H&S Committee/s established.   |
| General                    | Committee/s              | All H&S Reps shall be members of H&S Committees  |
| Administrative             |                          | Additional members are appointed in writing.   |
| Regulations 5              |                          | Meetings held monthly, Minutes kept.   |
|                            |                          | Auctioned by Management.   |
| Section 37(1) & (2)        | *Agreement with Man      | Written agreement with (Sub-)Contractors   |
|                            | dataries/                | List of (Sub-)Contractors displayed.   |
|                            | (Sub-)Contractors        | Proof of Registration with Compensation Insurer/Letter of Good   |
|                            |                          | Standing   |
|                            |                          | Construction Supervisor designated   |
|                            |                          | Written arrangements re.   |
|                            |                          | H&S Reps & H&S Committee   |
|                            |                          | Written arrangements re. First Aid   |
| Section 24 &               | *Reporting of Incidents  | Incident Reporting Procedure displayed.  |
| General Admin.             | (Dept. of Labour)        | All incidents in terms of Sect. 24 reported to the Provincial  |
| Regulation 8               | (30)                     | Director, Department of Labour, within 3 days. (Annexure 1?)(WC  |
| COID Act Sect.38, 39       |                          | 1 or 2) and to the Client and/or its Agent on its behalf   |
| & 41                       |                          | Cases of Occupational Disease Reported   |
|                            | •                        | Copies of Reports available on Site  |
|                            |                          | Record of First Aid injuries kept  |
| General Admin.             | *Investigation and       | All injuries which resulted in the person receiving medical  |
| Regulation 9               | Recording of Incidents   | treatment other than first aid, recorded and investigated by   |
| ŭ                          |                          | investigator designated in writing.  |
|                            |                          | Copies of Reports (Annexure 1) available on Site   |
|                            |                          | Tabled at H&S Committee meeting  |
|                            |                          | Action taken by Site Management.   |
| Construction.              | Fall Prevention &        | Competent person appointed to draw up and supervise the Fall   |
| Regulation 8               | Protection               | Protection Plan  |
| •                          |                          | Proof of appointees competence available on Site   |
|                            |                          | Risk Assessment carried out for work at heights  |
|                            |                          | Fall Protection Plan drawn up/updated  |
|                            |                          | Available on Site  |
| Construction.              | Roof work                | Competent person appointed to plan & supervise Roof work.  |
| Regulation 8(5)            |                          | Proof of appointees competence available on Site   |
| regulation 8(5)            |                          | Risk Assessment carried out  |
|                            | 1                        | Roof work Plan drawn up/updated  |
|                            |                          |  |
|                            |                          |  |
|                            |                          | Roof work inspect before each shift. Inspection register kept  |
|                            |                          | Roof work inspect before each shift. Inspection register kept Employees medically examined for physical & psychological fitnes                             |
| Construction               | Structures               | Roof work inspect before each shift. Inspection register kept<br>Employees medically examined for physical & psychological fitnes<br>Written proof on site |
| Construction. Regulation 9 | Structures               | Roof work inspect before each shift. Inspection register kept<br>Employees medically examined for physical & psychological fitnes                          |

| Construction. Regulation 10  | Formwork & Support<br>work   | - the design loading of the structure - the methods & sequence of construction - anticipated dangers/hazards/special measures to construct safely Risk Assessment carried out Method statement drawn up All above available on Site Structures inspected before each shift. Inspections register kept Competent person appointed in writing to supervise erection, maintenance, use and dismantling of Support & Formwork Design drawings available on site Risk Assessment carried out Support & Formwork inspected: - before use/inspection - before pouring of concrete - weekly whilst in place - before stripping/dismantling. |
|--|--|---|
| Construction.<br>Regulation 14   | Scaffolding  | - Inspection register kept  Competent persons appointed in writing to:  - erect scaffolding (Scaffold Erector/s)  - act as Scaffold Team Leaders  - inspect Scaffolding weekly and after inclement weather (Scaffold Inspector/s)  Written Proof of Competence of above appointees available on Site  Copy of SABS 085 available on Site  Risk Assessment carried out Inspected weekly/after bad weather. Inspection register/s kept  |
| Construction. Regulation 11  | Excavations  | Competent person/s appointed in writing to supervise and inspect excavation work Written Proof of Competence of above appointee/s available on Site Risk Assessment carried out Inspected: - before every shift - after any blasting - after an unexpected fall of ground - after any substantial damage to the shoring - after rain. Inspections register kept Method statement developed where explosives will be/ are used   |
| Construction.<br>Regulation 19   | Explosive Powered Tools .  | Competent person appointed to control the issue of the Explosive Powered Tools & cartridges and the service, maintenance and cleaning. Register kept of above Empty cartridge cases/nails/fixing bolts returns recorded Cleaned daily after use Work areas are demarcated!  |
| Construction. Regulation 22/Electrical Machinery Regulations 9 & 10/ Electrical Installation Regulations | *Inspection & Maintenance of Electrical Installation & Equipment (including portable electrical tools) | Competent person appointed in writing to inspect/test the installation and equipment. Written Proof of Competence of above appointee available on Site Inspections: - Electrical Installation & equipment inspected after installation, after alterations and quarterly. Inspection Registers kept Portable electric tools, electric lights and extension leads must be uniquely identified/numbered. Weekly visual inspection by User/Issuer/Storeman. Register kept.  |
| Construction. Regulation 26/ General Safety  | *Designation of Stacking & Storage Supervisor.   | Competent Person/s with specific knowledge and experience designated to supervise all Stacking & Storage Written Proof of Competence of above appointee available on Sit  |

| Danishing 9/11/a)    |                             |  |
|----------------------|-----------------------------|--|
| Regulation 8(1)(a)   | *Decimation of a Decimation | Person/s with specific knowledge and experience designated to co-    |
| nstruction.          | *Designation of a Person    | ordinate emergency contingency planning and execution and fire       |
| Remation 27/         | to                          |  |
| Environmental        | Co-ordinate Emergency       | prevention measures  |
| Regulation 9         | Planning                    | Emergency Evacuation Plan developed:                                 |
|                      | And Fire Protection         | - Drilled/Practiced  |
|                      |                             | - Plan & Records of Drills/Practices available on Site               |
|                      |                             | Fire Risk Assessment carried out                                     |
|                      |                             | All Fire Extinguishing Equipment identified and on <i>register</i> . |
|                      |                             | Inspected weekly. Inspection Register kept                           |
|                      |                             | Serviced annually  |
| General Safety       | *First Aid                  | Every workplace provided with sufficient number of First Aid         |
| Regulation 3         | 111367114                   | boxes. (Required where 5 persons or more are employed)               |
| negulation 5         |                             | First Aid freely available   |
|                      |                             | Equipment as per the list in the OH&S Act.                           |
|                      |                             | One qualified First Aider appointed for every 50 employees.          |
|                      |                             | (Required where more than 10 persons are employed)                   |
|                      |                             | List of First Aid Officials and Certificates                         |
|                      |                             | Name of person/s in charge of First Aid box/es displayed.            |
|                      |                             | Location of First Aid box/es clearly indicated.                      |
|                      |                             | Signs instructing employees to report all                            |
|                      |                             | Injuries/illness including first aid injuries                        |
| General Safety       | Personal Safety             | PSE Risk Assessment carried out                                      |
| Regulation 2         | Equipment (PSE)             | Items of PSE prescribed/use enforced                                 |
| Regulation 2         | Equipment (1 32)            | Records of Issue kept  |
|                      |                             | Undertaking by Employee to use/wear PSE                              |
|                      |                             | PSE remain property of Employer, not to be removed from              |
|                      | İ                           | premises GSR 2(4)  |
| General Safety       | *Inspection & Use of        | Competent Person/s with specific knowledge and experience            |
| Regulation 9         | Welding/Flame Cutting       | designated to Inspect Electric Arc, Gas Welding and Flame Cutting    |
| Acgulation 5         | Equipment                   | Equipment  |
|                      | Edaibilian                  | Written Proof of Competence of above appointee available on Site     |
|                      |                             | All new vessels checked for leaks, leaking vessels NOT taken into    |
|                      |                             | stock but returned to supplier immediately                           |
|                      |                             | Equipment identified/numbered and entered into a register            |
|                      |                             | Equipment inspected weekly. Inspection Register kept                 |
| ,                    |                             | Separate, purpose made storage available for full and empty          |
|                      |                             | vessels  |
| Hazardous Chemical   | Control of Storage &        | Competent Person/s with specific knowledge and experience            |
| Substances (HCS)     | Usage of HCS and            | designated to Control the Storage & Usage of HCS (including          |
| Regulations          | Flammables                  | Flammables)  |
| Construction         |                             | Written Proof of Competence of above appointee available on Site     |
| Regulation 23        |                             | Risk Assessment carried out  |
|                      |                             | Register of HCS kept/used on Site                                    |
| İ                    |                             | Separate, purpose made storage available for full and empty          |
|                      |                             | containers   |
| Vessels under        | Vessels under Pressure      | Competent Person/s with specific knowledge and experience            |
| Pressure Regulations | (VUP)                       | designated to supervise the use, storage, maintenance, statutory     |
| ]                    |                             | inspections & testing of VUP's                                       |
|                      |                             | Written Proof of Competence of above appointee available on Site     |
|                      |                             | Risk Assessment carried out  |
|                      |                             | Certificates of Manufacture available on Site                        |
|                      |                             | Register of VUP's on Site  |
|                      |                             | Inspections & Testing by Approved Inspection Authority (AIA):        |
|                      |                             | - after installation/re-erection or repairs                          |
|                      |                             | - every 36 months.   |
|                      |                             | - Register/Log kept of inspections, tests. Modifications & repair    |
| Conoral Cafata       | Inconcion of Indian         | Competent person appointed in writing to inspect Ladders             |
| General Safety       | Inspection of Ladders       | Competent person appointed in writing to inspect Ladders             |

| Regulation 13A                   |       | Ladders inspected at arrival on site and weekly there after. Inspections register kept Application of the types of ladders (wooden, aluminium etc.) regulated by training and inspections and noted in register |
|----------------------------------|-------|---|
| General Safety<br>regulation 13B | Ramps | Competent person appointed in writing to Supervise the erection & inspection of Ramps. Inspection register kept.  Daily inspected and noted in register   |

14.2 Education & Training

| 14.2 Educatio     | 14.2 Education & Training   |  |  |
|-------------------|---|--|--|
| Subject           | Requirement   |  |  |
| *Company          | Policy signed by CEO and published/Circulated to Employees                |  |  |
| OH&S Policy       | Policy displayed on Employee Notice Boards                                |  |  |
| Section 7(1)      | Management and employees committed.                                       |  |  |
| *Company/Site     | Rules published   |  |  |
| OH&S Rules        | Rules displayed on Employee Notice Boards                                 |  |  |
| (Section 13(a)    | Rules issued and employees effectively informed or trained: written proof |  |  |
|                   | Follow-up to ensure employees understand/adhere to the policy and rules.  |  |  |
| *Induction &      | All new employees receive OH&S Induction Training.                        |  |  |
| Task Safety       | Training includes Task Safety Instructions.                               |  |  |
| Training          | Employees acknowledge receipt of training.                                |  |  |
| (Section 13(a)    | Follow-up to ensure employees understand/adhere to instructions.          |  |  |
| *General OH&S     | All current employees receive specified OH&S training: written proof      |  |  |
| Training (Section | Operators of Plant & Equipment receive specified training                 |  |  |
| 13(a)             | Follow-up to ensure employees understand/adhere to instructions.          |  |  |
| *Occupational     | Incident Experience Board indicating e.g.                                 |  |  |
| Health & Safety   | * No. of hours worked without an Injury                                   |  |  |
| Promotion         | * No. of days worked without an Injury                                    |  |  |
|                   | Mission, Vision and Goal  |  |  |
|                   | Star Grading - Board kept up to date.                                     |  |  |
|                   | Safety Posters displayed & changed regularly                              |  |  |
|                   | Employee Notice Board for OH&S Notices.                                   |  |  |
|                   | Site OH&S Competition.  |  |  |
|                   | Company OH&S Competition.   |  |  |
|                   | Participation in Regional OH&S Competition                                |  |  |
|                   | Suggestion scheme.  |  |  |

14.3 Public Safety, Security Measures & Emergency Preparedness

| Subject          | Requirement   |
|------------------|---|
| *Notices & Signs | Notices & Signs at entrances / along perimeters indicating  |
|                  | "No Unauthorised Entry".  |
| ·                | Notices & Signs at entrance instructing visitors and non - employees what to do, where to go and where to report on entering the site/yard with directional signs. e.g. "Visitors to report to Office" Notices & Signs posted to warn of overhead work and other hazardous activities. e.g. General Warning Signs |
| Site             | Nets, Canopies, Platforms, Fans etc. to protect members of the public passing / entering the site.  |
| Safeguarding     |   |
| Security         | Access control measures/register in operation   |
| Measures         | Security patrols after hours during weekends and holidays   |
|                  | Sufficient lighting after dark  |
|                  | Guard has access to telephone/ mobile/other means of emergency communication  |
| Emergency        | Emergency contact numbers displayed and made available to Security & Guard  |
| Preparedness     | Emergency Evacuation instructions posted up on all notice boards (including employees' notice boards)   |
|                  | Emergency contingency plan available on site/in yard  |
|                  | Doors open outwards/unobstructed  |
|                  | Emergency alarm audible all over (including in toilets)   |
| Emergency Drill  | Adequate No. of employees trained to use Fire Fighting Equipment.   |
| & Evacuation     | Emergency Evacuation Plan available, displayed and practiced.   |



14.4 Personal Protective Equipment

| 14.4 Personal Prot   | ective Equipment   |
|----------------------|--|
| Subject              | Requirement  |
| *PPE needs analysis  | Need for PPE identified and prescribed in writing.   |
| •                    | PPE remain property of Employer, not to be removed from premises GSR 2(4)  |
| *Head Protection     | All persons on site wearing Safety Helmets including Sub-contractors and Visitors (where   |
| 1,0001,000           | prescribed)  |
| *Foot Protection     | All employees on site wearing Safety Footwear including Gumboots for concrete / wet work and   |
| Tott Totection       | non-slip shoes for roof work.  |
|                      | Visitors to wear same upon request or where prescribed   |
| *Eye and Face        | Eye and Face (also Hand and Body) Protection (Goggles, Face Shields, Welding Helmets etc.)   |
| Protection           | used when operating the following:   |
| Protection           | * Jack/ Kango Hammers  |
|                      | * Angle / Bench Grinders   |
|                      | * Electric Drills (Overhead work into concrete / cement / bricks   |
|                      | * Explosive Powered tools  |
|                      | * Concrete Vibrators / Pokers  |
|                      | * Hammers & Chisels  |
|                      | * Cutting / Welding Torches  |
|                      | * Cutting Tools and Equipment  |
|                      | * Guillotines and Benders  |
|                      |  |
|                      | * Shears   |
|                      | * Sanders and Sanding Machines   |
|                      | * CO2 and Arc Welding Equipment  |
|                      | * Skill / Bench Saws   |
|                      | * Spray Painting Equipment etc.  |
| *II                  | Hearing Protectors (Muffs, Plugs etc.) used when operating the following:  |
| *Hearing Protection  | * Jack / Kango Hammers   |
|                      | * Explosive Powered Tools  |
|                      | * Wood/Aluminium Working Machines e.g. saws, planers, routers  |
| ***                  | Protective Gloves worn by employees handling / using:  |
| *Hand Protection     |  |
|                      | * Cement / Bricks / Steel / Chemicals  |
|                      | * Welding Equipment  |
|                      | * Hammers & Chisels  |
|                      | * Jack / Kango Hammers etc.  |
| *Respiratory         | Suitable/efficient prescribed Respirators worn correctly by employees handling / using:  |
| Protection           | * Dry cement   |
|                      | * Dusty areas  |
|                      | * Hazardous chemicals  |
|                      | * Angle Grinders   |
| ļ                    | * Spray Painting etc.  |
|                      | to the second se |
| *Fall Prevention     | Suitable Safety Belts / Fall Arrest Equipment correctly used by persons working on / in  |
| Equipment            | unguarded, elevated positions e.g.:  |
|                      | * Scaffolding  |
|                      | * Riggers  |
|                      | * Lift shafts  |
|                      | * Edge work  |
|                      | * Ring beam edges etc.   |
|                      | Other methods of fall prevention applied e.g. catch nets   |
| *Protective Clothing | All jobs requiring protective clothing (Overalls, Rain Wear, Welding Aprons etc.) Identified and   |
|                      | clothing worn.   |
| *PPE Issue & Control | Identified Equipment issued free of charge.  |
|                      | All PPE maintained in good condition. (Regular checks).  |



Workers instructed in the proper use & maintenance of PPE. Commitment obtained from wearer accepting conditions and to wear the PPE. Record of PPE issued kept on H&S File.

PPE remain property of Employer, not to be removed from premises GSR 2(4)

Housekeeping

| Subject            | Requirement   |  |  |
|--------------------|---|--|--|
| *Scrap Removal     | All items of Scrap/Unusable Off-cuts/Rubble and redundant material        |  |  |
| System             | removed from working areas on a regular basis. (Daily)                    |  |  |
|                    | Scrap/Waste removal from heights by chute/hoist/crane.                    |  |  |
|                    | Nothing thrown/swept over sides.  |  |  |
|                    | Scrap disposed of in designated containers/areas                          |  |  |
|                    | Removal from site/yard on a regular basis.                                |  |  |
| Stacking & Storage | Stacking:   |  |  |
|                    | * Stable, on firm level surface/base.                                     |  |  |
|                    | * Prevent leaning/collapsing  |  |  |
|                    | * Irregular shapes bonded   |  |  |
|                    | * Not exceeding 3x the base   |  |  |
|                    | * Stacks accessible   |  |  |
|                    | * Removal from top only.  |  |  |
|                    | Storage:  |  |  |
|                    | * Adequate storage areas provided.  |  |  |
| •                  | * Functional – e.g. demarcated storage areas/racks/bins etc.              |  |  |
|                    | * Special areas identified and demarcated e.g. flammable gas,             |  |  |
| (See Section 1 for | cement etc.   |  |  |
| Designation &      | * Neat, safe, stable and square.  |  |  |
| Register)          | * Store/storage areas clear of superfluous material.                      |  |  |
|                    | * Storage behind sheds etc. neat/under control.                           |  |  |
|                    | * Storage areas free from weeds, litter etc.                              |  |  |
| *Waste             | Re-usable off-cuts and other re-usable material removed daily and kept    |  |  |
| Control/Reclamati  | to a minimum in the work areas.   |  |  |
| on                 | All re-usable materials neatly stacked/stored in designated areas. (Nails |  |  |
|                    | removed/bent over in re-usable timber).                                   |  |  |
|                    | Issue of hardware/nails/screws/cartridges etc. controlled and return of   |  |  |
|                    | unused items monitored.   |  |  |
| Sub-contractors    | Sub-contractors required to comply with Housekeeping requirements.        |  |  |
| (Housekeeping)     |   |  |  |

Working at Heights (including roof work)

| Subject  | Requirement.   |
|----------|--|
| Openings | Unprotected openings adequately guarded/fenced/barricaded/catch nets installed   |
|          | Roof work discontinued when bad/hazardous weather Fall protection measures (including warning notices) when working close to edges or on fragile roofing material Covers over openings in roof of robust construction/secured against displacement |

Scaffolding / Formwork / Support Work

| Subject       | Requirement   |
|---------------|---|
| Access/System | Foundation firm / stable                                |
| Scaffolding   | Sufficient bracing.                                     |
| <b>.</b>      | Tied to Structure/prevented from side or cross movement |
|               | Platform boards in good condition/sufficient/secured.   |
|               | Handrails and toe boards provided.                      |
|               | Access ladders / stairs provided.                       |
|               | Area/s under scaffolding tidy.                          |
|               | Safe/unsafe for use signs                               |
|               | Complying with OH&S Act/SABS 085                        |

| Free Standing       | Foundation firm / stable                                       |
|---------------------|--|
| affolding           | Sufficient bracing.  |
| Julia               | Platform boards in good condition/sufficient/secured.          |
|                     | Handrails and toe boards provided.                             |
|                     | Access ladders / stairs provided.                              |
|                     | Area/s under scaffolding tidy.                                 |
|                     | Safe/unsafe for use signs                                      |
|                     | Height to base ratio correct                                   |
|                     | Outriggers used /tied to structure where necessary             |
|                     | Complying with OH&S Act/SABS 085                               |
| *Mobile Scaffolding | Wheels / swivels in good condition                             |
|                     | Brakes working and applied.                                    |
|                     | Height to base ratio correct.                                  |
|                     | Outriggers used where necessary                                |
|                     | Complying with OH&S Act/SABS 085                               |
| Formwork / Support  | All components in good condition.                              |
| Work                | Foundation firm / stable.                                      |
|                     | Adequate bracing / stability ensured.                          |
|                     | Good workmanship / uprights straight and plumb.                |
|                     | Good cantilever construction.                                  |
|                     | Safe access provided.  |
|                     | Areas under support work tidy.                                 |
|                     | Same standards as for system scaffolding.                      |
| Edges & Openings    | Edges barricaded to acceptable standards.                      |
|                     | Manhole openings covered / barricaded.                         |
|                     | Openings in floor / other openings covered, barricaded/fenced. |
|                     | Stairs provided with handrails.                                |
|                     | Lift shafts barricaded / fenced off.                           |

14.8 Ladders

| 14.0 Laquers          | 10 mm 1 mm 1 mm 1 mm 1 mm 1 mm 1 mm 1 m                            |
|-----------------------|--|
| Subject               | Requirement  |
| *Physical Condition / | Stepladders - hinges/stays/braces/stiles in order.                 |
| Use & Storage         | Extension ladders - ropes/rungs/stiles/safety latch/hook in order. |
|                       | Extension / Straight ladders secured or tied at the bottom / top.  |
|                       | No joined ladders used   |
|                       | Wooden ladders are never painted except with varnish               |
|                       | Aluminium ladders NOT to be used with electrical work              |
|                       | All ladders stored on hooks / racks and not on ground.             |
|                       | Ladders protrude 900 mm above landings / platforms / roof.         |
|                       | Fixed ladders higher than 5 m have cages/Fall arrest system        |

14.9 Electricity (as part of, or additional to the manual "Safety & Switching Procedures for Electrical Installations"- see attached document)

| Subject   | Requirement  |
|---|--|
| *Electrical Distribution Boards & Earth Leakage | Colour coded / numbered / symbolic sign displayed. Area in front kept clear and unobstructed. Fitted with inside cover plate / openings blanked off / no exposed "live" conductors / terminals/Door kept close Switches / circuit breakers identified. Earth leakage protection unit fitted and operating. Tested with instrument: Test results within 15 – 30 milliamps Aperture/Opening/s provided for the plugging in and removal of extension leads without the need to open the door Apertures and openings used for extension leads to be protected against the elements and especially rain |

| ectrical<br>Installations & Wiring                         | Temporary wiring / extension leads in good condition / no bare or exposed wires.  Earthing continuity / polarity correct:  Looking at the open connectors to connect the wiring, the word "Brown" has the letter 'R' in it, so the b'R'own wire connects to the 'R'ight hand connector. "Blue" has the letter 'L' in it, so the b'L'ue wire connects to the 'L'eft hand connector.  Cables protected from mechanical damage and moisture.  Correct loading observed e.g. no heating appliance used from lighting circuit etc.  Light fittings/lamps protected from mechanical damage/moisture.  Cable arrestors in place and used inside plugs |
|--|--|
| *Physical condition of<br>Electrical Appliances<br>& Tools | Electrical Equipment and Tools: (includes all items plugging in to a 16 Amp supply socket) Insulation / casing in good condition. Earth wire connected/intact where not of double insulated design Double insulation mark indicates that no earth wire is to be connected. Cord in good condition/no bare wires/secured to machine & plug. Plug in good condition, connected correctly and correct polarity.   |

14.10 Emergency and Fire Prevention and Protection

| Subject   | Requirement   |           |
|---|---|-----------|
| *Fire Extinguishing   | Fire Risks Identified and on record   |           |
| Equipment   | The correct and adequate Fire Extinguishing Equipment available for:                                      |           |
|   | * Offices   |           |
|   | * General Stores  |           |
|   | * Flammable Store   |           |
|   | * Fuel Storage Tank/s and catchment well  |           |
|   | * Gas Welding / Cutting operations  |           |
|   | * Where flammable substances are being used / applied.  |           |
|   | * Equipment Easily Accessible   |           |
| *Maintenance  | Fire equipment checked minimum monthly, serviced yearly   |           |
| *Location & Signs   | Fire Extinguishing Equipment:   |           |
|   | * Clearly visible   |           |
|   | * Unobstructed  |           |
|   | * Signs posted including "No Smoking" / "No Naked Lights" where required. (Flammable store,               |           |
|   | Gas store, Fuel tanks etc.)   |           |
| * Storage Issue &   | Storage Area provided for flammables with suitable doors, ventilation, bund etc.                          |           |
| Control of Flammable store neat / tidy and no Class A combustibles. Decanting of flammable su carried out in ignition free and adequately ventilated area. Container bonding principal carried out in ignition free and adequately ventilated area. |   |           |
|   |   | cylinders |
| •   | Separate, special gas cylinder store/storage area.  |           |
|   | Gas Cylinders stored / used / transported upright and secured in trolley/cradle/structure and ventilated. |           |
|   | Types of Gas Cylinders clearly identified as well as the storage area and stored separately.              |           |
|   | Full cylinders stored separately from empty cylinders.  |           |
|   | All valves, gauges, connections, threads of all vessels to be checked regularly for leaks.                |           |
|   | All valves, gauges, connections, tilleads of all vessels to be checked regularly for reaks.               |           |
|   | Leaking acetylene vessels to be returned to the supplier IMMEDIATELY.                                     |           |
| *Storage, Issue &   | HCS storage principles applied: products segregated   |           |
| Control of Hazardous  | Only approved, non-expired HCS to be used   |           |
| Chemical Substances   | Only the prescribed PPE shall be used as the minimum protection   |           |
| (HCS)   | Provision made for leakage/spillage containment and ventilation   |           |
|   | Emergency showers/eye wash facilities provided  |           |
|   | HCS under lock & key controlled by designated person  |           |
|   | Decanted/issued in containers as prescribed with information/warning labels                               |           |
|   | Disposal of unwanted HCS by accredited disposal agent   |           |
|   | No dumping or disposal of any HCS on or inside the storage area or anywhere else on the project           |           |
|   | site  |           |
|   | All vessels or containers to be regularly checked for leaks   |           |

| Subject          | Requirement   |
|------------------|---|
| cavations deeper | Shored / Braced to prevent caving / falling in.                   |
| 1m.              | Provided with an access ladder.                                   |
|                  | Excavations guarded/barricaded/lighted after dark in public areas |
|                  | Soil dumped at least 1 m away from edge of excavation             |
|                  | On sloping ground soil dumped on lower side of excavation         |
|                  | All excavations are subject to daily inspections                  |

#### 14.12 Tools

| 14.12 Tools        |   |
|--------------------|---|
| Subject            | Requirement   |
| *Hand Tools        | Shovels / Spades / Picks:   |
|                    | * Handles free from cracks and splinters  |
|                    | * Handles fit securely  |
|                    | * Working end sharp and true  |
|                    | Hammers:  |
|                    | * Good quality handles, no pipe or reinforcing steel handles.                                       |
|                    | * Handles free from cracks and splinters  |
|                    | Handles fit securely  |
|                    | <u>Chisels:</u>   |
|                    | * No mushroomed heads / heads chamfered   |
|                    | * Not hardened  |
|                    | * Cutting edge sharp and square   |
|                    | Saws:   |
|                    | * Teeth sharp and set correctly   |
|                    | * Correct saw used for the job  |
| *Explosive Powered | Only used by trained / authorised personnel.  |
| Tools.             | Prescribed warning signs placed / displayed where tool is in use.                                   |
|                    | Work area must be properly isolated/demarcated during use of tool.                                  |
|                    | Inspected at least monthly by competent person and results recorded.                                |
|                    | Issue and return recorded including cartridges / nails and unused cartridges / nails / empty shells |
|                    | recorded.   |
|                    | Cleaned daily after use.  |

14.13 Transport & Materials Handling Equipment

| Subject        | Requirement  |
|----------------|--|
| *Site Vehicles | All Site Vehicles, Dumpers, Bobcats, Loaders etc; checked daily before use by driver / operator. Inventory of vehicles used/operated on site Inspection by means of a checklist / results recorded. No persons riding on equipment not designed or designated for passengers. Site speed limit posted, enforced and not exceeded. Drivers / Operators trained / licensed and carrying proof. No unauthorised persons allowed to drive / operate equipment. |
| Conveyors      | Conveyor belt nip points and drive gear guarded. Emergency stop/lever/brake fitted, clearly marked & accessible and tested to be functional under full load.   |

14.14 Site Plant and Machinery

| Subject               | Requirement  |
|-----------------------|--|
| Brick Cutting Machine | Operator Trained. Only authorised persons use the machine. Emergency stop switch clearly marked and accessible. Area around the machine dry and slip/trip free/clear of off-cuts All moving drive parts guarded/electrical supply cable protected Operator using correct PPE - eye/face/hearing/foot/hands/body. |
| *Electric Arc Welder  | Welder Trained. Only authorised / trained persons use welder. Earth cable adequately earthed to work.  |

|   | Electrode holder in good condition/safe   |
|---|---|
|   | Cables, clamps & lugs/connectors in good condition.   |
|   | Area in which welding machine is used is dry/protected from wet.  |
|   | Welder using correct PPE - eye/ face/foot/body/respirator.  |
|   | Correct transparent screens & warning signs placed  |
| *Compressors  | Relief valves correctly set and locked / sealed.  |
|   | Maximum Safe Working Pressure (MSWP) indicated on face of pressure gauge: not on glass                  |
|   | cover.  |
|   | All drives adequately guarded.  |
|   | Receiver/lines drained daily  |
|   | Hoses good condition/clamped, not wired   |
|   | Compressed air NEITHER used to dust off clothing/PPE/ and work areas NOR on bare skin                   |
| Concrete Mixer / Top platform provided with guardrails. |   |
| Batch Plant   | Dust abatement methods in use.  |
|   | Operators using correct PPE - eye / hands / respirators.  |
|   | All moving drive parts guarded.   |
|   | Emergency stops identified / indicated and accessible.  |
|   | Area kept clean/dry/and free from tripping and slipping hazards.  |
|   | Operators overseer identified and crane signals displayed and used.                                     |
| *Gas Welding / Flame                                    | Only authorised/trained persons use the equipment.  |
| Cutting Equipment                                       | Torches and gauges in good condition.   |
|   | Flashback arrestors fitted at cylinders and gauges.   |
|   | Hoses in good condition/correct type/all connections with clamps  |
|   | Cylinders stored, used and transported in upright position, secured in trolley / cradle / to structure. |
|   | All cylinders regularly checked for leaks, leaking cylinders returned immediately                       |
|   | Fire prevention/control methods applied/hot work permits.   |

14.15 Plant & Storage Yards/Site Workshops Specifics

| 1 Traile & Storage Tatasy Site Workshop's Specifies |  |  |
|---|--|--|
| Subject   | Requirements   |  |
| Section 8(2)(1)                                     | Person/s with specific knowledge and experience designated in writing to Supervise |  |
| General Machinery Regulation                        | the Use & Maintenance of Machinery   |  |
| 2(1):   | Critical items of Machinery identified/numbered/placed on register/inventory       |  |
| Supervision of the Use &                            | Inspection/maintenance schedules for abovementioned                                |  |
| Maintenance of Machinery                            | Inspections/maintenance carried out to above schedules                             |  |
|   | Results recorded   |  |
| General Machinery Regulation                        | Schedule D Notice posted in Work areas   |  |
| 9(2): Notices re. Operation of                      |  |  |
| Machinery   |  |  |
| Vessels under Pressure                              | Person/s with specific knowledge and experience designated in writing to Supervise |  |
| Regulation 13(1)(b):                                | the Use & Maintenance of VuP's   |  |
| Supervision of the Use &                            | VuP's identified/numbered/placed on register/Manufacturers plate intact            |  |
| Maintenance of Vessels under                        | Inspection/maintenance schedules for abovementioned                                |  |
| Pressure (VuP)                                      | Inspections/maintenance carried out to above schedules                             |  |
|   | Results recorded/Test certificates available                                       |  |
|   |  |  |

| Lock-out Procedure          | Lock-out procedure in operation  |
|-----------------------------|--|
| Ergonomics                  | Ergonomics survey conducted – results on record  |
|                             | Survey results applied   |
| Demarcation & Colour Coding | Demarcation principles applied   |
|                             | All services, pipes, electrical installation, stop-start controls, emergency controls etc. |
|                             | colour coded to own published or SABS standard   |
|                             | Employees trained to identify colour coding  |
| Portable & Bench Grinders   | Area around grinder clear/trip/slip free   |
|                             | Bench grinders mounted securely - grinder generally in good condition - no excessive       |
|                             | vibration  |
|                             | On/Off switch/button clearly demarcated/accessible   |
|                             | Adequate guards in place   |
|                             | Toolrest – secure/square/max. 2 mm gap, perpendicular to drive shaft                       |
|                             | Stone/disk - correct type and size/mounted correctly/dressed                               |
|                             | Use of Eye protection enforced   |
| Battery Storage & Charging  | Adequately ventilated, ignition free room/area/no smoking sign/s                           |
|                             | Batteries placed on rubber/wooden surface  |
|                             | Emergency shower/eye wash provided   |
|                             | No acid storage in area  |
|                             | Prescribed methods in place and adhered to when charging batteries                         |
| Ancillary Lifting Equipment | Chain Blocks/Tirfors/jacks/mobile gantries etc. identified/                                |
|                             | numbered on register   |
|                             | Chains in good condition/links no excessive wear/checked daily                             |
|                             | Lifting hooks – throat pop marked/safety latch fitted                                      |
|                             | SWL/MML marked/displayed   |
| Presses/Guillotines/        | Only operated by trained/authorised persons  |
| Shears                      | Interlocks/lock-outs fitted/PPE worn or used at all times                                  |

14.16 Workplace Environment, Health and Hygiene

| Subject           | Requirements.   |
|-------------------|---|
| *Lighting         | Adequate lighting in places where work is being executed e.g. stairwells and basements.             |
|                   | Light fittings placed / installed causing no irritating/blinding glare.                             |
|                   | Stroboscopic effect eliminated (not only reduced) where moving objects or machinery is used         |
| *Ventilation      | Adequate ventilation / extraction / exhausting in hazardous areas e.g. chemicals / adhesives /      |
|                   | welding / petrol or diesel/ motors running and in confined spaces / basements.                      |
| *Noise            | Tasks identified where noise levels exceeds 85 dB at any one time.                                  |
|                   | All reasonable steps taken to reduce noise levels at the source.                                    |
|                   | Hearing protection used where noise levels could not be reduced to below 85 dB.                     |
| *Heat Stress      | Measures in place to prevent heat exhaustion in heat stress problem areas e.g. steel decks,         |
|                   | when the WBGT index reaches 30. (See Environmental Regulation 4)                                    |
|                   | Cold drinking water readily available at all times.   |
| *Ablutions        | Sufficient hygiene facilities provided - 1 toilet per 30 employees (National Building Regulations   |
|                   | prescribe chemical toilets for Construction sites)  |
|                   | Toilet paper available.   |
|                   | Sufficient showers provided.  |
|                   | Facilities for washing hands provided   |
|                   | Soap/cleaning agent available for washing hands   |
|                   | Means of drying hands available   |
|                   | Lock-up changing facilities / area provided.  |
|                   | Ablution facilities kept hygienic and clean.  |
| *Eating / Cooking | Adaguato storago facilities provided  |
| Facilities        | Adequate storage facilities provided.   |
| i denities        | Weather protected eating area provided, separate from changing area Refuse bins with lids provided. |
|                   | Facilities kept clean and hygienic.   |
| *Pollution of     |   |
| Environment       | Measures in place to minimize dust generation.  |
| CHANOIBIICER      | Accumulation or littering of empty cement pockets, plastic wrapping / bags, packing materials       |

|                                   | etc. prevented.  Spillage / discarding of oil, chemicals and dieseline into storm water and other drains or into existing or newly dug holes/cavities on site expressly prohibited.  |
|-----------------------------------|--|
| *Hazardous Chemical<br>Substances | All substances identified and list available e.g. acids, flammables, poisons etc.  Material Safety Data Sheets (MSDS) indicating hazardous properties and emergency procedures in case of incident on file and readily available.  Substances stored safely.  Expiry dates meticulously checked where applicable |

#### 15. THE PRINCIPAL CONTRACTOR'S GENERAL DUTIES

The Principal Contractor shall at all times maintain 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.

#### 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 No.R1010 dated 18 July 2003.

The Principal Contractor is specifically referred to the following elements of the Construction Regulations:

Regulation No. 1 - Definitions Regulation No. 2 - Scope of application Regulation No. 3 - Notification of construction work Regulation No. 5 - Principal Contractor and Contractor Regulation No. 6 - Supervision of construction work Regulation No. 7 - Risk Assessment Regulation No. 26 - Stacking & Storage on construction sites Regulation No. 28 - Construction welfare facilities Regulation No. 29 - Approved Inspection authorities Regulation No. 30 - Offences and penalties

The Principal Contractor shall ensure compliance to the Act and its Regulations and specifically to the above regulations, and document each record in the Health and Safety File.

## 17. THE PRINCIPAL CONTRACTOR'S SPECIFIC RESPONSIBILITIES WITH REGARD TO HAZARDOUS ACTIVITIES

The following 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:

Regulation No. 8

- Fall protection

Regulation No. 9

- Structures

Regulation No. 10

- Formwork and support work

| Regulation No. 11 | - Excavation work  |
|-------------------|--|
| Regulation No. 12 | - Demolition work  |
| Regulation No. 13 | - Tunneling  |
| Regulation No. 14 | - Scaffolding  |
| Regulation No. 15 | - Suspended platforms  |
| Regulation No. 16 | - Boatswain's chairs   |
| Regulation No. 17 | - Material hoists  |
| Regulation No. 18 | - Batch plants   |
| Regulation No. 19 | - Explosive powered tools  |
| Regulation No. 20 | - Cranes   |
| Regulation No. 21 | - Construction vehicles & mobile plant.  |
| Regulation No. 22 | - Electrical installations and machinery on construction sites                           |
| Regulation No. 23 | <ul> <li>Use and temporary storage of flammable liquids on construction sites</li> </ul> |
| Regulation No. 24 | - Water environments   |
| Regulation No. 25 | - Housekeeping on construction sites   |
| Regulation No. 27 | - Fire precautions on construction sites.  |
|                   |  |

All these 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: -

- (i) The latest issue of SABS 0142: "Code of Practice for the Wiring of Premises"
- (ii) 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
- (iii) The Fire Brigade Services Act 1987, Act 99 of 1987 as amended
- (iv) The National Building Regulations and Building Standards Act 1977 (Act 103 of 1977) as amended and relevant proclaimed Regulations (SABS 0400)
- (v) The Post Office Act 1958 (Act 44 of 1958) as amended
- (vi) The Electricity Act 1984, Act 41 of 1984
- (vii) The Regulations of Local Gas Board(s)
- (viii) Legislation pertaining to water usage and the environment
- (ix) Legislation governing the use of equipment, which may emit radiation (e.g. X-Rays etc.)
- (x) 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.

rticular emphasis is to be placed on the following crucial elements of a construction site:

- Phase priorities and production/plant layout
- Enclosures
- Pits, openings and shoring
- Storage facilities
- Effective, sufficient and maintained lighting or illumination
- Principal sources of injuries e.g. stairways, runways, ramps, loose building material
- Oil, grease, water, waste, rubble, glass, storm water
- Colour coding
- Demarcations
- Pollution
- Waste disposal
- Ablution and hygiene facilities
- First aid

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.

#### 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. INCIDENT INVESTIGATION

Inspection and reporting is the best way in which a responsible contractor can control his area of responsibility. All incidents therefore, whether it gave rise to loss, injury, damage or not, shall be investigated and the results recorded in the Health and Safety File. (Attached GAR 9)

#### 22. GENERAL

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 longer than 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, as non-conformance will lead to the client taking action as directed by Construction Regulation 4.1(e). 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.

#### 23. 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:



List of appointments List of record keeping responsibilities Inspection checklist

These lists and documents are to be used as a point of reference to determine which components of the Act would be applicable to a particular site or task or project, as was intended under paragraph 1 ("Preamble") above.

#### 1. LIST OF APPOINTMENTS

|      | LIST OF APPOINTMENTS |  |                       |  |  |
|------|----------------------|--|-----------------------|--|--|
| ITEM | REGULATION           | APPOINTMENT                                    | RESPONSIBLE<br>PERSON |  |  |
| 1.   | 4(1)(c)              | Principal contractor for each phase or project | Client                |  |  |
| 2.   | 5.(3)(b)             | Contractor                                     | Principal Contractor  |  |  |
| 3.   | 5(11)                | Contractor                                     | Contractor            |  |  |
| 4.   | 6(1)                 | Construction supervisor                        | Contractor            |  |  |
| 5.   | 6(2)                 | Construction supervisor sub-ordinates          | Contractor            |  |  |
| 6.   | 6(6)                 | Health and Safety Officer                      | Contractor            |  |  |
| 7.   | 7(1)                 | Person to Carry Out Risk Assessment            | Contractor            |  |  |
| 8.   | 7(4)                 | Trainer/Instructor                             | Contractor            |  |  |
| 9.   | 8(1)(a)              | Fall Protection Planner                        | Contractor            |  |  |
| 10.  | 10 (a)               | Formwork & Support Work Supervisor             | Contractor            |  |  |
| 11.  | 10(e) + (f)          | Formwork & Support Work Examiner               | Contractor            |  |  |
| 12.  | 11(1)                | Excavation Supervisor                          | Contractor            |  |  |
| 13.  | 11(3)(b)(ii)(b)      | Professional Engineer or Technologist          | Contractor            |  |  |
| 14.  | 11(3)(k)             | Explosives Expert                              | Contractor            |  |  |
| 15.  | 12(1)                | Supervisor Demolition Work                     | Contractor            |  |  |
| 16.  | 12(2) + (3)          | Demolition Expert                              | Contractor            |  |  |
| 17.  | 12(11)               | Explosives Expert                              | Contractor            |  |  |
| 18.  | 14(2)                | Scaffold Supervisor                            | Contractor            |  |  |
| 19.  | 15(1)                | Suspended Platform Supervisor                  | Contractor            |  |  |
| 20.  | 15(2)(c)             | Compliance Plan Developer                      | Contractor            |  |  |
| 26.  | 19(2)(b)             | Power Tool Expert                              | Contractor            |  |  |
| 27.  | 19.2 (g) (i)         | Power Tool Controller                          | Contractor            |  |  |
| 31.  | 22(d)                | Temporary Electrical Installations Inspector   | Contractor            |  |  |
| 32.  | 22 (e)               | Temporary Electrical Installations Controller  | Contractor            |  |  |
| 33.  | 26 (a)               | Stacking and Storage Supervisor                | Contractor            |  |  |
| 34.  | 27 (h)               | Fire Equipment Inspector                       | Contractor            |  |  |

#### 2. LIST OF RECORD KEEPING RESPONSIBILITIES

| ITEM | CR   | RECORD TO BE KEPT   | RESPONSIBLE PERSON   |
|------|------|---|----------------------|
| 1.   | 3(3) | Notification to Provincial Director – Annexure A Available on site  | Principal Contractor |
| 2.   | 4(3) | Copy of Principal Contractor's Health & Safety Plan Available on request  | Client               |
| 3.   | 5(6) | Copy of Principal Contractor's Health & Safety Plan As well as each Contractor's Health & Safety Plan Available on request  | Principal Contractor |
| 4.   | 5(7) | Health and Safety File opened and kept on site (including all documentation required i.t.o. OHSA & Regulations Available on request   | Every Contractor     |
| 5.   | 5(8) | Consolidated Health and Safety File handed to Client on completion of Construction work.  To include all documentation required i.t.o. OHSA & Regulations and records of all drawings, designs, materials used and similar information on the structure | Principal Contractor |
| 6.   | 5(9) | Comprehensive and Updated List of all Contractors on site, the agreements between the parties and the work being done   | Principal Contractor |

| 14.      | 9(5)            | Maintenance records - safety of structure - Available on request  Drawings pertaining to the design of formwork/support work   | Owner of Structure                      |
|----------|-----------------|--|---|
| 13.      | 9(4)            | On site available for inspection  Record of inspections of the structure [First 2 years – once every 6 months, thereafter yearly] - Available on request                                 | Owner of Structure                      |
| 11.      | 9(2)(b)<br>9(3) | Inform contractor in writing of dangers and hazards relating to construction work  All drawings pertaining to the design of structure  | Designer of Structure  Contractor       |
| 10.      | 8(3)            | Construction Supervisor [CR 6(1)] has latest updated version of Fall Protection Plan [CR 8(1)]   | Contractor                              |
| 8.<br>9. | 7(2)<br>7 (9)   | Health and Safety Plan  Risk Assessment - Available on site for inspection  Proof of Health and Safety Induction Training  | Contractor<br>Every Employee on<br>site |
| 7        | 6(7)            | Included in Health and Safety file and available on request  Keep record on the Health and Safety File of the input by  Construction Safety Officer [CR 6 (7)] at design stage or on the | Contractor                              |

#### 3. INSPECTION CHECKLIST

|  | Employer Particulars |
|--|----------------------|
| Employer:                              |                      |
| Registered Name of Enterprise:         |                      |
| Trade Name of Enterprise:              |                      |
| Company Registration No.:              |                      |
| SARS Registration No.:                 |                      |
| UIF Registration No.:                  |                      |
| COIDA Registration No.:                |                      |
| Relevant SETA for EEA purposes:        |                      |
| Industry Sector:                       |                      |
| Bargaining Council:                    |                      |
| Contact Person:                        |                      |
| Address of Premises:                   |                      |
| Postal Address:                        |                      |
| Telephone Number:                      |                      |
| Fax Number:                            |                      |
| E-mail Address:                        |                      |
| Chief Executive Officer:               |                      |
| Chief Executive Officer Address:       |                      |
| Competent Person:                      |                      |
| Maximum power demand: in KW            |                      |
| Health and Safety Representatives:     |                      |
| Activities, products manufactured and/ |                      |
| services rendered:                     |                      |
| Raw materials, materials and chemical/ |                      |
| biological substances:                 |                      |
| Total Number of Employees:             | Male:                |
|  | Female:              |

|                                   | Contractor Particulars |  |  |  |  |
|-----------------------------------|------------------------|--|--|--|--|
| Contractors:                      |                        |  |  |  |  |
|                                   |                        |  |  |  |  |
| Site Address:                     |                        |  |  |  |  |
| Contracts Manager:                | ·                      |  |  |  |  |
| Managing Director:                |                        |  |  |  |  |
|                                   |                        |  |  |  |  |
| Competent Persons:                |                        |  |  |  |  |
| CR14: SCAFFOLDING:                |                        |  |  |  |  |
| CR15: SUSPENDED SCAFFOLDING:      |                        |  |  |  |  |
| CR17(6): MATERIAL HOIST (S):      |                        |  |  |  |  |
| CR18(1): BATCH PLANT:             |                        |  |  |  |  |
| CR8(1)(a): FALL PROTECTION:       |                        |  |  |  |  |
| CR11(1)(1): EXCAVATION WORK:      |                        |  |  |  |  |
| CR12: DEMOLITION WORK:            |                        |  |  |  |  |
| CR19(2)(b): EXPLOSIVE POWER TOOLS |                        |  |  |  |  |
| CR26(a): STACKING                 |                        |  |  |  |  |
|                                   |                        |  |  |  |  |

| INSPECTION    |   |     |     |    |
|---------------|---|-----|-----|----|
| SECTION/REGS  | ITEM CHECKED                                    | N/A | YES | NO |
|               | APPOINTMENTS                                    |     |     |    |
| CR6(1)        | Supervisor:                                     |     |     |    |
| CR6(2)        | Assistant Supervisor:                           |     |     |    |
| S17(1)        | Health & Safety Representative: (ratio)         |     |     |    |
| S19(1)        | Health & Safety Committees                      |     |     |    |
| CR 12(1)      | Demolition Director                             |     | -   |    |
|               | DOCUMENTS                                       |     |     |    |
| GAR 9(1)      | Records of Incidents                            |     |     |    |
| GAR 4         | Copy of the Act                                 |     |     |    |
| GAR 7         | Safety Reps Report                              |     |     |    |
| GAR 8         | Safety Committee Minutes                        |     |     |    |
| DMR 18(7)     | Lifting Machinery Log (Crane)                   |     |     |    |
| CR 3(3)       | Notification of Construction Work               |     |     |    |
| CR 7(2)       | Risk Assessment                                 |     |     |    |
| CR 7(9)(e)    | Proof of the Health & Safety Induction Training |     |     |    |
| CR 11(13)(h)  | Inspection of Excavation (Records)              |     |     |    |
| CR 20(g)      | Crane Operator Medical Certificate              |     |     |    |
| CR 21(11)     | Mobile Plant Operator Medical Certificate       |     |     |    |
| CR 18(9)      | Batch Plant Repairs & Maintenance Records       |     |     |    |
| CR22(d)       | Temporary Electrical Installation Record        |     |     |    |
| CR 5(7)       | Health & Safety File                            |     |     |    |
| CR 15(11)     | Suspended Platforms' Performance Records        |     |     |    |
| CR 17(b)& (c) | Material Hoists Record Book                     |     |     |    |
| IMPROV NOTICE | Scaffolding Log Book                            |     |     |    |

| CP 21/1\/d\/;;\                       | Medical Certificate of Fitness               | I            | 1  | į I  |
|---------------------------------------|--|--------------|--|--|
| CR 21(1)(d)(ii)                       | Construction Vehicle & Mobile Plant Register |              |  |  |
| CR 22(d)                              | Electrical Installation & Machinery Register |              | <del></del>                                      | -  |
| Ch 22(u)                              | Clectrical histaliation & Machinery Register |              |  |  |
|                                       | INCIDENTS                                    |              |  |  |
| GAR 8(1) S24                          | Reported                                     |              | <del> </del>                                     | <del>                                     </del> |
| GAR 9(1)                              | Recorded                                     |              | 1  |  |
| - (-,                                 | Investigated                                 |              |  |  |
|                                       | Action Taken                                 |              |  |  |
|                                       |  |              |  |  |
|                                       | PUBLIC SITE                                  |              | ļ  | <b></b>  |
| FR 2(1)                               | Sanitary Facilities                          |              |  |  |
| CR 28(1) (c)                          | Changing Facilities for each sex             |              |  |  |
| CR 25(d)                              | Perimeter fence & no admittance              |              |  |  |
| CR 25(e)                              | Overhead protection netting/falling objects  |              |  |  |
| NB Notice                             | Pedestrian warning                           |              |  |  |
|                                       |  |              | 1  | 1  |
|                                       | PERSONAL SAFETY EQUIPMENT                    |              |  |  |
|                                       | Items Issued:                                |              |  |  |
| GSR 2(3)                              | Items Required:                              |              |  |  |
| S23                                   | (What is the payment on each item?)          |              |  |  |
|                                       |  |              |  | <del> </del>                                     |
|                                       | SAFETY PLANS                                 |              |  |  |
|                                       |  |              |  |  |
|                                       | FIRST AID                                    |              |  |  |
| GSR 3(6)                              | Name(s) of First Aider (s):                  |              |  |  |
| CR 4(1)(3)                            | Client's Health & Safety Specification       |              |  | <u> </u>   |
| CR5                                   | Principal's contractor H&S Plan              |              |  |  |
|                                       |  |              |  |  |
| GSR 4                                 | FIRE HAZARD & PRECAUTIONS                    |              |  |  |
| G5K 4                                 | Flammables used, waste, hot work, diesel     |              |  |  |
| ER 9(1)                               | Portable Extinguishers                       |              | <u> </u>   |  |
|                                       | 0  |              | <u> </u>   |  |
|                                       | ELECTRICAL INSTALLATIONS & MACHINERY         |              |  |  |
| CR22                                  | Guarding & PPE to Electrical Installations   |              |  |  |
|                                       |  |              | <b></b>  | -  |
|                                       | ILLUMINATION                                 |              |  |  |
| ER 3(6)                               | Dangerous Places                             |              | -  | -  |
| (0)                                   | Housekeeping                                 |              |  | -  |
| ER6(2)(b),(c),(d)                     | Clear space storage                          |              |  | -  |
| ER6(3)                                | Disposal of waste                            | <del>-</del> | <del>                                     </del> | 1  |
| , , , , , , , , , , , , , , , , , , , | 1  |              | 1  |  |
|                                       | EXCAVATIONS                                  |              |  |  |
| CR 11(3)(I)                           | Barricades                                   |              |  |  |
| CR 11(3)(c)                           | Safe Depth Shoring/Bracing                   |              |  |  |
| CR 11(1)(a)                           | Monitored                                    |              |  |  |
| CR 11(3)(h)                           | Excavation Inspection Record                 |              |  |  |
|                                       |  |              |  |  |
|                                       | GUARDING                                     |              |  |  |
|                                       |  |              |  |  |
| ER 6(2)(f)                            | Floor Openings                               |              | ļ  |  |
|                                       | Floor slab sides, Shafts                     |              |  |  |

|             | SITE EQUIPMENT   |                                       |  |
|-------------|--|---------------------------------------|--|
| G5K 13A(a)  | Ladders condition, secured                                 |                                       |  |
| IMPROV      | Scaffold condition, secured                                |                                       |  |
|             | Platforms no. of boards condition Support 1.25. Toe Boards |                                       |  |
| IMPROV      | Hand Rails   |                                       |  |
|             | SITE MACHINES  | •                                     |  |
| DMR 3(2)(3) | Circulars, guards, riving knives                           |                                       |  |
| DMR 2(a)    | Mixers guarded   |                                       |  |
|             | ELECTRIC POWER   |                                       |  |
| EMR 6(1)    | Supply Board, condition E.L Relay Test                     |                                       |  |
| GMR 3(1)    | Condition of Tools, Leads, Plugs, etc                      |                                       |  |
|             | LIFTING MACHINE/TACKLE                                     |                                       |  |
| DMR 18(8)   | Lifting of persons   | · · · · · · · · · · · · · · · · · · · |  |
| DMR 18(8)   | Condition, Securing of Load                                |                                       |  |
|             | EXPLOSIVE POWERED TOOLS                                    |                                       |  |
| CR 19(1)    | Safe Use and Storage                                       |                                       |  |
| IMPROV      | Warning Notice   |                                       |  |
|             | ROOF WORK  |                                       |  |
| CR 8(1)     | Safety equipment & precautions                             |                                       |  |
| CR 8(2)     | Fall protection plan                                       |                                       |  |
| CR 8(3)     | Updated fall protection plan                               |                                       |  |
|             | ASBESTOS CEMENT  |                                       |  |
| AR 10(a)    | Suitable Tools   |                                       |  |

<u>WARNING</u>: Under no circumstances shall any work of any nature whatsoever on any

ASBESTOS material be undertaken unless the work is entrusted and mandated to a "REGISTERED ASBESTOS CONTRACTOR" in terms of the Asbestos Regulations. [CR 12(9)] (plse. contact the Regional Manager's Office)

## 24. HEALTH AND SAFETY FILE COMPILATION AND CONTENT (Document attached)

## 25. SAFETY AND SWITCHING PROCEDURES FOR ELECTRICAL INSTALLATIONS (Document attached)

#### NOTE:

The guidelines and conditions provided in this attached document form an integral constituent of the Health and Safety Specifications. It is therefore a condition of acceptance that no Health and Safety Plan shall be complete unless all relevant elements of this document applicable to the above project have been included in the Health and Safety Plan. The final approval of the Health and Safety Plan in terms of CR 4(2) shall be subject to this requirement based on the following certification by the Principal Contractor or his Agent:

The contents of CR 5 is pivotal when mandatary appointments are contemplated.

<sup>&</sup>quot; I hereby certify that I have taken cognisance of the content of the document titled 'SAFETY AND SWITCHING PROCEDURES FOR ELECTRICAL INSTALLATIONS' and have included the relevant elements of the document applicable to the above project in my Health and Safety Plan and shall ensure adherence to the requirements thereof."

- 26. GUIDE TO THE GENERAL ADMINISTRATIVE REGULATIONS (Document attached)
  - 27. IMPORTANT CONTACT DETAILS (HEALTH & SAFETY ONLY) (Document attached)



- 14. HEALTH AND SAFETY FILE COMPILATION AND CONTENT
- 15. SAFETY AND SWITCHING PROCEDURES FOR ELECTRICAL INSTALLATIONS
- 16. GUIDE TO THE GENERAL ADMINISTRATIVE REGULATIONS
- 17. IMPORTANT CONTACT DETAILS HEALTH & SAFETY ONLY



# "HEALTH AND SAFETY FILE"

#### **FOR**

## PROJECTS AND MAINTENANCE (ELECTRICAL)

MANAGED ON BEHALF OF

# THE NATIONAL DEPARTMENT OF PUBLIC WORKS

This document serves as a guide to Principle Contractors and Contractors (and their agents) to t them in complying with the requirements of the Act and more specifically the Construction Regulations and to ensure a most comprehensive Health and Safety File. Kindly note the following extractions from the Construction Regulations:

"Every contractor shall ensure that a health and safety file, which shall include all documentation required in terms of the provisions of the Act and the Regulations, is opened and kept on site and made available to an inspector, client, client's agent or principle contractor upon request. [CR 5(7)]

A Principal Contractor shall hand over a consolidated health and safety file to the client upon completion of the construction work and shall, in addition to the documentation referred to in sub regulation (7) [above], include a record of all drawings, designs, materials used and other similar information concerning the completed structure. [CR 5(8)]

A Principal Contractor shall ensure that in addition to the documentation required in the health and safety file as determined in the two sub regulations above, a comprehensive and updated list of all the contractors on site accountable to the Principal Contractor, the agreements between the parties and the type of work being done are included and available. [CR 5(9)]"

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The information, documentation and lists required to be included in the Health and Safety File as contemplated in the Construction Regulations [CR 5(7)], shall be suitably and sufficiently documented in terms of the following items listed below to ensure compliance with the Act as far as is reasonably practicable.

Note: In the event that any of the items listed below may not have reference to the planning, implementation and completion of the work to be done pertaining to the project on the construction site, it must clearly be indicated as such with a proper statement e.g. 'Not Applicable'. All other relevant references or items below shall relate to the information required as contemplated in the Act and Regulations.

IMPORTANT - This Health and Safety File shall be regarded as the property of the Client as it has to be consolidated and handed over to the Client upon completion of the project. The Principal Contractor shall ensure that this file is adequately protected against any form of damage, abuse or fraud.

#### Registers as follows:

- Accident/Incident Register (Annexure 1 of the General Administrative Regulations)
- H&S Representatives ('SHE Reps') Inspection Register
- Arc & Gas Welding & Flame Cutting Equipment Inspections
- Inspection of Cranes
- Inspection of Ladders
- Inspection of Vessels under Pressure plus all other excluded under VUP regulations
- Fire fighting equipment

The H&S Representatives (SHE-Reps) will be required to submit the abovementioned registers as well as other legally required registers, also from the list below, on a monthly basis to the chairman of the H&S committee for submission to, and endorsement by the H&S Committee. Also refer to the suggested Agenda for the H&S Committee under 12.8.3

#### Documents as follows:

Copy of OH&S Act (updated) (General Administrative Regulation 4.)

Proof of Registration and good standing with a COID Insurer (Construction Regulation 4(1)(g)

Appointments – in terms of the Construction Regulations \* [See references Page 4]

Notification of Construction Work - Annexure 1 [CR 3]

H&S Specifications [CR 4]

H&S Plan - Principal Contractor, Contractor & Sub-contractors [CR 5(1) & (4)]

Proof of Periodic Audits [CR 4, 5 & 6]

List of all Contractors (accountable to Principal Contractor) on site [CR 5(9)]

Contractor Agreements [CR 5(9)]

Type of work done on site [CR 5(9)]

Records of drawings, designs, materials used and similar information concerning the completed structure [CR 5(8)] nnut by Construction Safety Officer [CR 6(7)]

Assessment [CR 7(1)]

Copy of Risk Assessment [CR 7(2)]

Proof of H&S Induction Training [CR 7(4) & (7) & (9)(b)]

Proof of training on Hazards and Work Related Procedures [CR (7(4)]

Fall Protection Plan [CR 8]

Designer notice to contractor of dangers and hazards relating to construction work [CR 9(2)(b)]

Drawings design of structure [CR 9(3)]

Records of Inspections of Structure [CR 9(4)]

Maintenance records – structure safety [CR 9(5)]

Record Excavation Inspection [CR 11(3)(h)]

Method Statement [CR 11(3)(k)]

Method Statement [CR 12(2)]

Method Statement [CR 12(11)]

Operational Compliance Plan [CR 15(2)(c)]

Certificates, design calculations, sketches and test results [CR 15(3)]

Examination results [CR 15(9)]

Suspended Platform Inspection and Performance Test records [CR 15(11)]

Medical Certificate of Fitness [CR 15(12)(b)]

Proof of Training [CR 15(12)(c)]

Material Hoist Inspections [CR17(8)(c)]

Maintenance Records Material hoist [CR17(8)(d)]

Record Batch Plant Maintenance & Repair [CR18(9)]

Register for control of cartridges/nails studs – explosive powered tools [CR19(2)(g)(ii)]

Medical Certificates of Fitness [CR 20(g)]

Medical Certificates of Fitness [CR 21(1)(d)(ii)]

Findings of daily inspections Construction Vehicles & Mobile Plant [CR21(1)(j)]

Record of Temporary Electrical Installation Inspections [CR22(d)]

Record of Electrical Machinery Inspections [CR22(d)]

Proof of Training [CR 27(i)]

Evacuation Plan [CR 27(1)]

H&S Rep & Committee Members details

H&S Committee Meetings' Minutes

Other appointments in terms of OHASA

The following further identified requirements in terms of the Act and other Regulations of the Act are similarly applicable as part of the contents of the 'Health and Safety File':

Details of Inspections (by DoL)

Recording and Investigation of Incidents - Annexure 1 [GAR 9(1-3)]

Action taken on all incidents [GAR 9(4)]

Certificates of Competency in First Aid [GSR 3(4)]

Record of Medical Surveillance required in terms of OHASA

Proof of compliance with Asbestos Regulation requirements

Proof of compliance with Major Hazard Installation requirements

\*The Appointments to be made in writing with job descriptions as per the Construction Regulations may include some or all of the following:

```
PRINCIPAL CONTRACTORS - [CR 4(1)(c)]
CONTRACTORS
                            -[CR 5(3)(b) + (11)]
COMPETENT PERSONS
                            -[CR 6(1) + (2)]
```

-[CR 6(6)]-[CR 7(1) + (4)]

-[CR 8(1)(a)]

-[CR 10(a) + (e) + (f)]

-[CR 11(1) + (3)(b)(ii)(b) + (3)(k)]

-[CR 12(1) + (2) + (3) + (11)]

- [CR 14(2)]

-[CR 15(1) + (2)(c) + (8)(c) + (13)]

```
-[CR 17(8)(a)]
                                -[CR 18(1) + (7)]
                                -[CR 19(2)(b) + (2)(g)(i)]
                                - [CR 20(f)]
                                -[CR 21(1)(d)(i) + (1)(j)]
                                -[CR 22(d) + (e)]
                                -[CR 26(a)]
                                - [CR 27(h)]
CONSTRUCTION SAFETY OFFICER - [CR 6(6)]
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DESIGNER - [CR 9(2)]

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## **IMPORTANT:**

A copy of the following certification in terms of the "SAFETY AND SWITCHING PROCEDURES FOR ELECTRICAL INSTALLATIONS" (Document attached) signed by the prospective tenderer / contractor is to be included in the Health and Safety File:

" I hereby certify that I have taken cognizance of the content of the document titled 'SAFETY AND SWITCHING PROCEDURES FOR ELECTRICAL INSTALLATIONS' and have included the relevant elements of the document applicable to the above project in my Health and Safety Plan and shall ensure adherence and compliance to the requirements thereof."



# NATIONAL DEPARTMENT OF PUBLIC WORKS

## SAFETY AND SWITCHING PROCEDURES

## **FOR**

**ELECTRICAL INSTALLATIONS** 

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## 1 REGULATIONS AND DEFINITION OF COMPETENT PERSON:

## 1.1 <u>REGULATIONS</u>:

All persons who carry out or arrange for work of any description for the Department in connection with electrical apparatus shall make themselves acquainted with the Occupational Health and Safety Act (Act 85 1993) with particular reference to the Electrical Machinery Regulations, Regulations 1 to 23 inclusive.

Access to the above Act and its Regulations can be arranged with the Regional Manager.



"competent person" in relation to machinery, means any person who---

- has served an apprenticeship in an engineering trade which included the operation and maintenance of machinery, or has had at least five years' practical experience in the operation and maintenance of machinery, and who during or sub-sequent to such apprenticeship or period of practical experience, as the case may be, has had not less than one year's experience in the operation and maintenance appropriate to the class of machinery he is required to supervise;
- (b) has obtained an engineering diploma in either the mechanical or electro technical (heavy current) fields with an academic qualification of at least T3 or N5, or of an equivalent level, and who subsequent to achieving such qualification has had not less than two years' practical experience in the operation and maintenance appropriate to the class of machinery he is required to supervise;
- is a graduate engineer and has had not less than two years' post-graduate practical experience in the operation and maintenance appropriate to the class of machinery he is required to supervise and who has passed the examination on the Act and the regulations made there-under, held by the Commission of Examiners in terms of regulations E5 (2) of the regulations published under Government Notice R.929 of 28 June 1963; or
- (d) is a certificated engineer;

## 2 <u>SAFETY EQUIPMENT</u>

The following equipment required for working on electrical installations and distribution systems, must be maintained in good order and repair and must be made available:-

Safety belt, overalls, hard hat, safety shoes or boots, rubber gloves, "Men Working" notice boards, locks for locking off switches, buss bar shutters in truck-type switchgear, isolators or earthing links, rubber sheet and length of rope with short circuiting earthing-chains, earthing sticks and testing/phasing sticks rated for the voltage of the equipment to be tested.

Under no circumstances shall work be carried out on electrical apparatus unless the proper safety equipment is used

With regard to overhead linesmen, no work shall be carried out unless use is made of a non-metallic ladder and the appropriate safety belt, rubber gloves, overalls, hardhat and safety shoes or boots are worn. The buddy system must also be implemented.

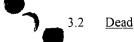
## 3 DEFINITION OF OPERATING TERMS

## 3.1 Alive or live

This means electrically connected to the power system and/or electrically charged.

Consider an isolated overhead line that is not earthed. An overhead line can be electrically connected to the system in the following ways:

- (a) By means of a metallic conductor such as links and breakers or switches. This is the normal way of transmitting electrical energy.
- (b) Electromagnetic induction or transformer action from a nearby current carrying line will induce a dangerous voltage in the isolated lines and are a hazard to all personnel that must work on or with the line.
- (c) Electrostatic induction or condenser action from a nearby live line will induce a dangerous voltage in any isolated, but not earthed, overhead line. Electrically charged means at a potential difference or voltage above zero



This means that any apparatus so described is isolated from the power system. Rotating plant shall not be regarded as dead until it is stationary or is being slowly rotated by means of barring gear and is not excited.

The Occupational Health and Safety Act defines dead as: "dead" means at or about zero potential and isolated from any live system. Disconnected has the same meaning as isolated. An overhead line disconnected from all sources of supply but not earthed, cannot be regarded as dead because:

- (a) It can retain a static charge.
- (b) It can acquire a static charge due to atmospheric conditions.
- (c) It can accidentally be made alive.
- (d) Nearby lines continually induce voltage in them.

The regulations recognise only the following devices as disconnects or isolators:-

- (a) Links.
- (b) Fuses.
- (c) Truck type switchgear.

## 3.3 Earthing

This means the connecting of apparatus electrically to the general mass of earth in such a manner as will ensure at all times an immediate safe discharge of electrical energy. This is done through an earth bar or spike by means of a good metallic conductor.

To fully appreciate this definition we must refer to the Electrical Machinery Regulations, Regulation 3 of the Occupational Health and Safety Act which states:

"Work on Disconnected Electrical Machinery. —Without derogating from any specific duty imposed on employers or users of machinery by the Act, the employer or user shall, whenever work is to be carried out on any electrical machinery which has been disconnected from all sources of electrical energy but which is liable to acquire or to retain an electrical charge, as far as is practicable, cause precautions to be taken by earthing or other means to discharge the electrical energy to earth from such electrical machinery or any adjacent electrical machinery if there is danger if there is danger there from before it is handled and to prevent any electrical machinery from being charged or made live while persons are working thereon."

Electrical apparatus and in particular overhead lines may become charged due to:-

- (a) Direct lightning strokes.
- (b) Electro magnetically induced currents due to a lightning stroke in the immediate vicinity of the line.
- (c) Electro statically induced charges on the lines due to the presence of thunderclouds.
- (d) Electrostatic charges imparted to the line by the friction of dust or snow blowing past the conductors.
- e) Electrostatic charges imparted to the line due to changes in line altitude"

These changes are responsible for tremendously high voltages between overhead lines and earth, in fact, sometimes high enough to cause a flash over on insulators. A spark may span several centimetres of air to a person's hand should he approach too closely to an isolated unearthed overhead line.

An overhead line or apparatus can be made alive by:

- (a) Unauthorised operating, i.e., closing the wrong links and breaker.
- (b) Faulty wiring on consumer's stand-by sets. (Back feed from consumer)
- (c) A broken overhead conductor from a different line falling onto the isolated line.
- (d) Synchronising plugs.

From the foregoing paragraphs it is clear that the purpose of earthing isolated lines and apparatus are:



- (a) To discharge them should there be a residual voltage or charge.
- (b) To prevent them acquiring a static charge.
- (c) To prevent danger to persons working on apparatus in the event of someone accidentally making it alive.
- (d) To dissipate induced voltages continuously and safely.

Earthing gear means the fixed or portable appliances used for earthing electrical apparatus. The dangers from inadequate or improper earth connections are:

- (a) Electrocution.
- (b) Burns from arcing.
- (c) Electric shock leading to falls.

Earthing may be done by the closing of earthing links, or by the attaching of fixed earthing devices or by the affixing of portable earthing straps. In each case the main idea is to ensure the safety of personnel.

In affixing portable earth straps, the connection to the earthbar or earthed metal or spike must be made first and in removing such earthing straps, the disconnecting from the earthbar or earthed metal or spike must be done last. Also, a link stick or an insulated stick should be used to connect the earth wires to the overhead lines or apparatus.

These requirements are most important because connecting the portable strap first to earth and then to the conductors by means of a link stick avoids the risk of a shock to the operator from static charges or induced voltages.

## REMEMBER: Always safety test before applying earths.

## 3.4 Isolate

This means to disconnect from all Sources of electrical potential by means of opening of links or fuses or the withdrawal of truck-type circuit-breakers.

All sources of electrical potential mean all points or circuits from where the apparatus can be made alive. Links, fuses and truck-type switchgear can be regarded as isolators because:

- (a) They leave a visible air gap in a circuit when open, removed or withdrawn.
- (b) They contain no stored energy and will not close due to defects.
- (c) They can be locked in a physical condition and thus can only be operated by the person with the correct key.

Opening links and locking them in the open position; removing fuses and locking them away; withdrawing truck-type switchgear and locking the buss bar shutters are the only safe methods of isolating.

## 3.5 Circuit Breaker

This is a device designed to make or break electric current under normal and fault conditions. A breaker can make or break an electric current because it is designed to extinguish the arc very rapidly and effectively. It is also designed to withstand the tremendous forces under short circuit conditions. The arc-extinguishing medium for high-voltage breakers is normally air, oil or vacuum and should this medium be lost, the breaker becomes a link. Never use a breaker without an arc-extinguishing medium to interrupt current flow because the breaker will probably explode or it will sustain severe damage.

A fault condition is any condition that will cause an excessive amount of current flow. The normal fault conditions are:

- (a) Phase faults.
- (b) Earth faults.
- (c) Open circuit in one line of a three-phase system (Single-phasing).
- (d) Too low a voltage. (Motors will draw a large current or even stall).



- (e) Too high a voltage.
- (f) Overloading.

For the following reasons breakers cannot be regarded as isolators:

- (a) They leave no visible gap in a circuit.
- (b) They contain stored energy and can close on their own due to various defects.
- (c) It is normally not possible to lock them in an open position.
- (d) Oil circuit-breakers are subjected to carbon tracking which could cause a flash-over between contacts.

## 3.6 Link

This is a device for making or breaking a circuit when no load current is flowing. Links differ from breakers and switches in the following respects:

- (a) They are not equipped with an arc extinguishing medium/device.
- (b) Their movement is very slow.

Should current be interrupted by means of links, an uncontrollable arc will be struck at the points where the contacts part.

The temperature of the arc is so high (+ 2 000°C) that it will simply melt the parting contacts. As the contacts move further apart, the arc will lengthen and burn everything away. Molten metal could splash onto the operator and cause severe injuries.

As the arc lengthens, considerable noise is generated and the light intensity is so severe that the operator could suffer from "welding flash" of the eyes.

When apparatus equipped with earthing links is required to be earthed at more than one place, the earthing links shall always be closed first and thereafter, any necessary portable earthing gear may be affixed to the apparatus.

In removing the earths in readiness for making the apparatus alive, all portable earthing gear shall first be removed and earthing links shall be opened last.

Closing the earthing links first ensures maximum safety to the operator. These links are easily operated, make good contact and the operating handles are at a safe distance from the contact points.

Locks and keys shall also be provided for links. The operating mechanism of all manually operated links shall be fitted with fastenings for locks. The operating mechanisms of each set of manually operated links shall normally be locked whether the links are in the open or in the closed position.

The locking of links provides a safeguard against their being opened or closed in error by other persons apart from the one with the correct key and a written instruction to operate.

## 3.7 Operating methods

This means switching, linking, safety testing and earthing. This definition also indicates the order of operating when making apparatus safe to work on.

- (a) Switching -
  - (i) Open breaker or switch to interrupt current flow safely, i.e. prevent arcs,
  - (ii) Close breaker or switch to start current flow the only safe way.
- (b) Linking open at least one set of links from where the apparatus can be made alive and lock the links in the open position. Always ensure that you are not going to start or interrupt current flow with the links by ensuring that the breaker or switch is open.
- (c) Safety test test all three phases to ensure that the apparatus is disconnected from all sources of supply and that there is no back-feed from a consumer's standby set or other source.



- (d) Apply earths ensure safety of the workers by:-
  - (i) Discharging the line or apparatus.
  - (ii) Preventing the line from acquiring a static charge.
  - (iii) Preventing the line or apparatus from being accidentally made alive.

Before applying portable earths, ensure that they are mechanically and electrically in good condition. There should be no broken strands, the clamps should be rigid and without defect and when applied properly, should make intimate contact with the conductors and earthbar or spike. The earthing cable tails should be as short as possible. The current carrying capacity of the portable earth is greatly reduced by broken strands. It will act as a fuse and increase the danger to workmen.

## 4 GENERAL SAFETY PRECAUTIONS

No person shall carry out work of any description (including maintenance, repairs, cleaning and testing) on any part of electrical apparatus unless such parts of the apparatus are:

- (a) dead;
- (b) disconnected, isolated and all practicable steps taken to lock off from live conductors;
- efficiently connected to earth with the appropriate earthing sticks or gear designed for this purpose at all points of disconnection of supply;
- (d) screened where necessary to prevent danger, and caution and danger notices fixed;

and unless such person is fully conversant with the nature and extent of the work to be done.

It is the duty of the competent person in charge of the work to ensure that the foregoing provisions are complied with. He shall also ensure that when the work has been completed, the apparatus is safe to be made alive and that all earths and temporary danger notices have been removed.

Provided that cleaning and painting of earthed metal enclosures, connections or disconnections of circuits to or from live systems may be carried out in accordance with instructions issued by the competent person concerned.

Provided also that where the design of the apparatus precludes the strict compliance with all details of these precautions, the work shall be carried out to the instructions of the senior competent person present.

When any person receives instructions: regarding work on or the operation of high voltage apparatus he shall report any objection to the carrying out of such instructions to the competent person who shall have the matter investigated and, if necessary, referred to higher authority.

## 5 ACCESS TO HIGH VOLTAGE ENCLOSURES AND APPARATUS

Enclosures, chambers, cubicles or cells containing high voltage conductors shall be kept locked and shall not be opened except by a competent person.

## 6 SWITCHING:

(a) No switching shall be carried out without the sanction of the appropriate competent person except for agreed routine switching or in cases of emergency.

All telephone instructions/messages relating to the switching operation shall be written down and be repeated in full to the sender to ensure that the message has been accurately received.

- (b) When a switch shows any sign of distress after operating, its condition shall be immediately reported to the appropriate competent person, and it shall be examined before further operation.
- (c) The examination of and necessary adjustments including inspection and/or changing of oil of any high voltage oil immersed circuit-breaker which has operated under fault conditions shall be carried out if possible before the circuit-breaker is re-closed, or at the earliest available opportunity thereafter.

## WORK IN SUBSTATIONS AND SWITCHING STATIONS CONTAINING EXPOSED LIVE CONDUCTORS.

## 7.1 <u>Safety Clearances to Live Conductors</u>:

Unless the whole equipment is "dead", the section which is made dead for work to be carried out shall be defined by the use of barriers or roping such that the minimum clearance from the nearest exposed conductor to ground level or platform or access way shall be:-

| Rated Voltage     | Clearance |
|-------------------|-----------|
| Up to 11 kV       | 3.0 m.    |
| From 11kV to 33kV | 3.4 m     |

The area at ground level shall be only that in which the work is to be carried out.

## 7.2 <u>Insufficient Clearances</u>

If the above clearances are not sufficient to avoid danger, other suitable arrangements shall be made to provide the requisite degree of safety.

## 7.3 Ladders and Other Long Objects

Ladders and other long objects shall not be used without the permission of the senior authorised person in charge of the work and the movement and erection of such ladders shall be under his/her direct supervision at all times.

## **8** WORK ON METAL CLAD SWITCHGEAR SPOUTS:

- (i) The section of bus bars on which work is to be carried out shall be made dead and isolated from all points of supply.
- (ii) The shutters of live spouts shall be locked closed.
- (iii) The busbars shall be earthed with approved earthing equipment if possible, at a panel other than that at which work is to be carried out. Temporary earths shall in any case be applied to all phases on the busbar at the point of work. These earths may then be removed one phase at a time for work to be carried out. Each phase earth shall be replaced before a second phase earth is removed.

For the earthing of metal clad switchgear, approved appliances only shall be used. The insertion of the hand or any other tool in contact spouts for this purpose is forbidden.

## **9** WORK ON TRANSFORMERS:

When work is carried out on transformers, both the primary and secondary switches and isolators shall be opened. The transformer shall also be isolated from all common neutral earthing equipment from which it may become live. This does not require the disconnection of solidly earthed neutrals.

## 10 WORK ON CABLES, CONDUCTORS AND OVERHEAD LINES:

## 10.1 Cables and Conductors

- (a) No person shall touch the insulation, which covers or supports any high voltage conductor unless the conductor is dead and earthed.
- (b) Before carrying out work involving cutting into a high voltage cable, the responsible person shall satisfy himself that the cable has been made dead, isolated and earthed where practicable and identified. In all cases of doubt, the cable shall be spiked in an approved manner.

## TESTING PROCEDURES AND PRECAUTIONS FOR COMMISSIONING OF ELECTRICAL CABLES

aim of this section is to create an awareness of the latest standards and testing procedures for the commissioning of new and the re-commissioning of repaired electrical cables.

Before commissioning or re-commissioning cables tests must be carried out to ensure the integrity of the cable/s and to ensure the safety of operating personnel.

## 1. Low voltage Cables

## 1.1 Initial Tests

Carry out a meter test to ensure that the insulation resistance complies with the manufacture's and the relevant SABS requirements. For L.V. cables a 500V d.c. meter is adequate for this purpose.

## 1.2 Voltage Tests

This covers extruded solid dielectric cables (covered by SABS 1507), voltage ranges are as indicated in Table 1

After installation the cable has to be tested to ensure the integrity of the cable and the quality of the work. A.C. testing of solid dielectric cables is preferred. Very low frequency high voltage sinusoidal electrical testing methods are recommended to avoid the use of cumbersome large testing equipment.

Method:

The test voltage should be applied between conductors and between each conductor and the metallic protection or earthed surroundings of the cable as appropriate. The voltage to be raised gradually to the specified values in the table and maintained for 15 minutes.

Table 1 - Test Voltages After Installation

| 1                       | 2                                  | 3                 | 4    |
|-------------------------|------------------------------------|-------------------|------|
| Cable operating voltage | e test voltage is to be applied    | Test Voltage<br>V |      |
|                         | toot vollage is to see applied     | m.s)              | d.c. |
| 300/500                 | en Conductors and conductors/earth |                   |      |
| 600/1000                | en Conductors and conductors/earth |                   |      |
| 1900/3300               | en conductors                      |                   |      |
| 1900/3300               | en Conductors and conductors/earth |                   |      |

## 2. Medium/High Voltage

Each section of the cable installation between substations shall be subjected to a preliminary voltage or insulation resistance test to prove the insulation resistance.

The installation resistance can be measured with a high voltage meter with a rating of 5000V.

2.1 Paper Insulated Lead covered Double Steel Tape or Wire Armoured Cable (covered by SABS 97), voltage ranges are as indicated in Table 2

The test voltage should be applied between conductors and between each conductor and the metal sheath, which should be held at earth potential. In each case, the voltage should be increased steadily to the stipulated value and maintained at this value for 15 minutes.

|               | 2       | 3          | 4          | 5                             | 6                                   | 7        |
|---------------|---------|------------|------------|-------------------------------|-------------------------------------|----------|
|               |         |            | Test V     | /oltage                       |                                     |          |
| age Rating of |         | Belte      |            | ngle-core and screened cables |                                     |          |
| Cable<br>kV   | Between | conductors | From condu | ctor to sheath                | tween conductor and sheath o screen |          |
|               | a.c.    | d.c.       | a.c.       | d.c.                          | a.c.                                | d.c.     |
| 3.3/3.3       | 7       | 9          | 7          | 9                             | -                                   | -        |
| 3.8/6.6       | 13      | 19         | 8          | 11                            | 8                                   | <u> </u> |
| 6.6/6.6       | 13      | 19         | 13         | 19                            | -                                   | -        |
| 6.35/11       | 22      | 31         | 13         | 19                            | 13                                  | 19       |
| 11/11         | 22      | 31         | 22         | 31                            | -                                   | -        |
| 12.7/22       | -       | -          | -          | -                             | 25                                  | 36       |
| 19/33         | -       | _          | -          | _                             | 38                                  | 54       |

2.2 XLPE-Insulated Cables covered by SABS 0198 Part 13.

NOTE: If circumstances necessitate testing that is not in accordance with the recommendations of this section, the cable manufacturer or a test expert should be consulted before any testing is carried out.

The use of inappropriate or excessive test voltages or of unsuitable fault location methods can damage XLPE-insulated cables. Cables that are particularly prone to damage during testing are those that have water trees and those that have a construction that differs from that specified in the 1981 and in subsequent editions of SABS 1339.

The Types of Test Waveforms to be applied are:

- a) Very low frequency (VLF): An Alternating waveform that is either sinusoidal or pseudo-square/cosine rectangular, of nominal frequency 0,1 Hz.
- b) Power frequency: An alternating sinusoidal waveform of frequency in the range 25 Hz to 100 Hz.
- c) Surge: A step waveform that has a rise time of a few microseconds and that gradually decays to zero within 5 s.

These waveforms are referred to in the various test tables below.

Note: Where the capacity of the test set permits, all three cores of a three-core cable may be tested together.

## 2.2.1 PRELIMINARY TESTS

2.2.1.1 <u>Leakage Resistance.</u> Before carrying out any testing or fault location, determine and accurately record the leakage resistance to earth and, if relevant, between conductors. Use an instrument that generates a d.c test voltage of not less than 250 V and not more than 5 kV. Typical minimum values of leakage resistance are given in Table 3.

| TABLE 3—MINIMUM LEAKAGE RESISTANCE    |     |                 |                  |       |
|---------------------------------------|-----|-----------------|------------------|-------|
| I                                     | 2   | 3               | 4                | 5     |
|                                       |     | Minimum leakage | e resistance, MS | 2     |
| Cable Operating voltage <i>U</i> , kV |     | Cable le        | ngth, m          |       |
| voltage 0, kv                         | 100 | 300             | 1 000            | 3 000 |
| 6,6                                   | 150 | 50              | 15               | 5     |
| 11                                    | 240 | 80              | 24               | 8     |
| 22                                    | 460 | 153             | 46               | 15    |
| 33                                    | 680 | - 227           | 68               | 23    |



- The value of leakage resistance multiplied by the cable length should not be less than  $(2 \text{ U} + 2) \text{ M}\Omega$ .km, where U is the voltage rating of the cable in kilovolt.
- This test is repeated after the required sequence of tests (see 2.2.2.7).

## 2.2.2 TESTING

2.2.2.1 Over voltage Commissioning Tests. When newly installed cables are being commissioned, they should be tested at the test voltages given in Table 4, appropriate to the test waveforms and test durations given in columns 1 and 2 of the table.

| TABLE 4—COMMISSIONING TEST VOLTAGES (r.m.s.) |                  |                                |           |             |    |  |  |
|--|------------------|--------------------------------|-----------|-------------|----|--|--|
| 1  | 2                | 3                              | 4         | 5           | 6  |  |  |
| T  | Duration         | Commissioning test voltage, kV |           |             |    |  |  |
| Test waveform (see 2.2)                      | Duration,<br>Min | Cable                          | Operating | voltage, kV |    |  |  |
| 2.2)   |                  | 6.6                            | 11        | 22          | 33 |  |  |
| VLF (0,1 Hz)                                 | 60               | 11                             | 19        | 38          | 57 |  |  |
| Power frequency                              | 60               | 8                              | 13        | 25          | 38 |  |  |

## NOTE:

- 1. Test sets for the above are commercially available.
- 2. Where the above test levels cannot be achieved, a reduced voltage for an extended time may be negotiated.
- 2.2.2.2 Overvoltage Maintenance/Repair Tests. When cables are tested for maintenance or repair purposes, they should be tested at the test voltages given in Table 5, appropriate to the waveforms and test durations given in columns 1 and 2 of the table.
- 2.2.2.3 Surge Test Method (see Table 5). The surge test is intended to be a practical basic safety test. It can be used as a non-damaging means of identifying fairly serious existing or potential faults when power frequency or VLF equipment is not available. The test avoids the application of a continuous d.c. voltage (see 2.2.2.4), but it is not as conclusive or rigorous as the other methods.

CAUTION:

During the surge test, a peak voltage of up to twice the test voltage can be generated in the cable.

Method.

Charge the surge generator to the appropriate test voltage given in Table 5. Using single-shot mode, release a surge into the cable and then soft-discharge the cable (see 2.2.5.5) within 5 s. Repeat the procedure up to five times and then fully discharge the cable by solidly earthing it for at least 5 min.

TABLE 5—MAINTENANCE/REPAIRS TEST VOLTAGES (r.m.s.)

| 1                        | 2              | 3                                   | 4           | 5           | 6  |
|--------------------------|----------------|-------------------------------------|-------------|-------------|----|
|                          |                | Maintenance/repair test voltage, kV |             |             |    |
| Test waveform (see 2.2)  | Duration       | Cal                                 | ole operati | ng voltage. | kV |
|                          |                | 6.6                                 | 11          | 22          | 33 |
| VLF (0,1 Hz)             | 15 min         | 8                                   | 13          | 25          | 38 |
| Power frequency          | 15 min         | 7                                   | 11          | 22          | 33 |
| Surge test (see 2.2.1.3) | 5 surges, max. | 7                                   | 11          | 22          | 33 |



D.c. Over voltage Testing. D.c. over voltage testing is likely to cause irreversible damage to XLPE-insulated cable systems, particularly if the cables have water trees. It often fails to identify potentially hazardous conditions in the cable. If d.c. testing has to be carried out because no other test methods are available, the voltage and duration should be limited to the appropriate values given in Table 6, which are recommended for quick identification of gross faults only. Use a d.c. test set or a surge generator in d.c. mode to apply the test voltage. After applying the voltage, soft-discharge the cable (see 2.2.2.5), using either the d.c. test set or a discharge stick. Fully discharge the cable by solidly earthing it for at least 8 h but preferably for 24 h.

| TABLE 6—D   | C. TEST | VOLTA     | .GES      |        |
|-------------|---------|-----------|-----------|--------|
| 1           | 2       | 3         | 4         | 5      |
|             | D.      | c. test v | oltage, k | ٧      |
| Duration, s | Cable   | operation | ng voltag | ge, kV |
|             | 6.6     | 11        | 22        | 33     |
| 10          | 6       | 10        | 20        | 30     |

- 2.2.2.5 SOFT DISCHARGE OF CABLE. An XLPE-insulated cable should always be soft-discharged through a resistance of at least 200 k $\Omega$ , for example by using a discharge stick. Discharging a conductor direct to earth by short-circuiting it with a lead can severely damage the cable. After the initial discharge, a cable should be solidly earthed for at least 5 min. If the cable has been subjected to any form of d.c. test, it should be solidly earthed for at least 8 h, but preferably for 24 h.
- 2.2.2.6 CABLE SHEATH TESTING. To avoid problems caused by the ingress of water into the cable, a cable should be subjected to sheath testing:
  - a) at commissioning,
  - b) annually, and
  - c) after the location and repair of a fault.

Cable sheath testing can also be used to locate conductor earth faults that have punctured the outer sheath, provided that multiple sheath faults are not present. A direct current sheath test voltage of 5 kV should be applied for 1 min, with a leakage current of 1 mA/km being regarded as acceptable.

- 2.2.2.7 AFTER TESTING. After completion of any of the above tests, the leakage test described in 2.2.1.1 should be repeated. A tenfold reduction in the value of leakage resistance could indicate a potential problem.
- 2.2.3 CIRCUIT-BREAKER CLOSURE
- 2.2.3.1 <u>Faulty or Unknown Cable Conditions</u>. Closing a circuit-breaker on an untested cable can be hazardous to the operator and can damage the cable. A fault should never be re-established by repeated closing of a circuit-breaker.
- 2.2.3.2 <u>Voltage Doubling</u>. During switch-in onto open circuit, voltage doubling occurs at the remote end of the cable. Voltages of up to 20 kV can occur on an 11 kV system. Switching onto a load such as a transformer avoids this voltage doubling.



## IMPORTANT CONTACT DETAILS

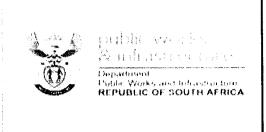
## (FOR HEALTH & SAFETY ASPECTS ONLY)

The contractor is to add all the important contact information about essentials services, support and assistance

|     | SERVICE              | NUMBER | CONTACT PERSON |  |
|-----|----------------------|--------|----------------|--|
|     | Hospital             |        |                |  |
| No. | Ambulance            |        |                |  |
|     | Water<br>Electricity |        |                |  |
| C   | Police               |        |                |  |
|     | Fire Brigade         |        |                |  |
|     | Engineer             |        |                |  |

ADD OTHER IMPORTANT HEALTH & SAFETY CONTACT DETAILS AS MAY BE FOUND NECESSARY.





## Addendum to the health and safety specification document.

## **COVID-19** pandemic

| Site Name:   | Date: |
|--------------|-------|
| DICC ITALLIC |       |

## **Principal Contractor Name**

## **Contractor Name:**

COVID-19 should not be allowed to destroy the construction sector, or our income in this sector. We are committed to working with government and the private sector towards ensuring that returning to work will achieve the envisioned economic prosperity for all employees and the country as a whole.

You are going to start working on the site as soon as it is allowed by Government. That means you must have a Covid - 19 management plan that form part of your health and safety plan, as an adendum, in your safety file. The Covid - 19 management plan must be developed by a competent person.

Your Covid - 19 management plan must be site specific and practically viable and must cover this sites anticipated areas where infections are likely to accur on your site area. All persons in your employ on site must be trained in your Covid - 19 management plan. The attendance register for the training must be attached to the Covid - 19 management plan.

Your CEO and site management must endorse (sign) the Covid - 19 management plan.

The Regulation that govern your Covid - 19 management plan have not been promulgamated yet. We are however being pro-active in this regard. If and when the Regulations are promulgamated and published in the Government Gazette, we will amend this adendum to correspond with the Regulatios. We do not forsee major changes in the draft Regulations.

## Your Covid - 19 management plan must contain at least the following:

- a. A schematical drawing of the actual workarea and where the actual work will be performed.
- b. Health Risk Assessment:
  - i This risk assessment must form part of your management plan. We do not want it as a separate document. It must physically form part of the Covid 19 management plan. Bind it within the plan document.
  - ii Different areas in the workplace might require different methods of safeguarding the employees. In that case specify the area and determine the risks and mitigating measures of that specific area.
- c. What are the symptoms and how to identify them in the workplace?
- d. Screening of workers. How will it be done and when?
- e. If someone is suspected of having the Covid -19 virus, what will the procedure be?

If an employee suspects that he/she has contracted the virus, what would the procedure be? What PPE will be issued and when?

- h. Quarantine:- self quarantine, forced quarantine, what will your procedure and policy be?
- i. Working from home guidelines. (When, who, etc.)
- j. Safe travelling to and from work.
- k. How will you safeguard meetings? Precautions during meetings?
- I. Hygiene in the workplace:

This specs was developed for Construction sites.

## Page 2

- i. Disinfecting workplace, tools, facilities, etc.
- ii. Disinfecting hands and bodyparts.
- iii. Methods of disinfecting that will be used.
- iv. What type of disinfectant?
- m. Physical contact. (Control, who, when, etc.)
- n. Training of employees
- o. Cross Provincial border travel of employees.
- p. Keeping record and communicating vital information of cases detected on site.
- q. Visitors to the site.
- r. Social distancing on site.
- s. Employee awareness program.
- t. Regularly cleaning common contact surfaces on site?
- u. How will you treat drivers that deliver to site?
- v. Handwashing facilities. (Where, when, how many, type, etc)
- w. Provision and disposal of hand towels.
- x. Cleaning regimes for toilet facilities particularly door handles, locks and the toilet flush.
- y. Portable toilet hygiene.
- z. Break times, how will you reduce congestion and contact?
- aa Hygiene at water drinking stations.
- ab Tracing of infected employees.
- ac Your weekly Covid 19 reports that must be submitted to the Client.
- ad Congestion at the workplaces.
- ae Consequence of not adhering to the Covid 19 management plan, the risk assessment and the policy.
- af You must develop a Covid 19 Policy.
- ag How will you manage your contractors on site regarding the Covid 19?

The required document must be submitted to DPW Consultants/Projectmanagers/OHS Managers. We will issue a letter of approval if all the requirements in this adendum to the health and safety plan, have been met. Please note that these requirements are minimum requirements only and all of the items must be addressed in your Covid - 19 management plan, risk assessment and Covid - 19 policy document.

## The index to your Covid - 19 File should contain at least the following:

- 1 Covid 19 Management plan
- 2 Covid 19 Risk Assessment
- 3 Covid 19 Policy
- 4 Employee Screening declarations
- 5 PPE Issue Register
- 6 Compliance Employees Appointments
- 7 Toolbox Talks
- 8 Safe Work Procedures
- 9 Checklists
- 10 Training Material
- 11 Posters
- 12 Compliance Officer Appointments

| I ewith my signature confirm | n that I have received this Covid - 19 specification document. |  |
|------------------------------|--|--|
|                              | This specs was developed for Construction sites.               |  |

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## **DEPARTMENT OF PUBLIC WORKS**

# HIV/AIDS SPECIFICATION

**OCTOBER 2004** 



## **SECTION**

## **HIV/AIDS SPECIFICATION**

## **HIV/AIDS REQUIREMENTS**

## 1 SCOPE

This specification contains all requirements applicable to the Contractor for creating HIV/AIDS awareness amongst all of the Workers involved in this project for the duration of the construction period, through the following strategies:

- Raising awareness about HIV/AIDS through education and information on the nature of the
  disease, how it is transmitted, safe sexual behaviour, attitudes towards people affected and people
  living with HIV/AIDS, how to live a healthy lifestyle with HIV/AIDS, the importance of voluntary
  testing and counselling, the diagnosis and treatment of Sexually Transmitted Infections and the
  closest health Service Providers;
- Informing Workers of their rights with regard to HIV/AIDS in the workplace;
- Providing Workers with access to condoms and other awareness material that will enable them to make informed decisions about sexual practices.

## 2 DEFINITIONS AND ABBREVIATIONS

## 2.1 **Definitions**

Service Provider: The natural or juristic person recognised and approved by the Department of Public Works as a specialist in conducting HIV/AIDS awareness programmes.

Service Provider Workshop Plan: A plan outlining the content, process and schedule of the training and education workshops, presented by a Service Provider which has been approved by the Representative/Agent.

Worker: Person in the employ of the Contractor or under the direction or supervision of the Contractor or any of his Sub-contractors, who is on site for a minimum period of 30 days in all.

## 2.2 Abbreviations

HIV: Human Immunodeficiency Virus.

AIDS : Acquired Immune Deficiency Syndrome.

STI: Sexually Transmitted Infection.

## 3 BASIC METHOD REQUIREMENT

3.1 The Contractor shall, through a Service Provider, conduct onsite workshops with the Workers.

The Service Provider shall develop and compile a Service Provider Workshop Plan to be presented at the workshops and which will be best suited for this project to achieve the specified objectives with regard to HIV/AIDS awareness.



The Service Provider Workshop Plan shall be based on the following information provided by the Contractor:

- Number of Workers and Sub-contractors on site;
- When new Workers or Sub-contractors will join the construction project;
- Duration of Workers and Sub-contractors on site;
- How the maximum number of Workers can be targeted with workshops;
- How the Contractor prefers workshops to be scheduled, e.g. three hourly sessions per Worker, or one 2.5 hour workshop per Worker;
- Profile of Workers, including educational level, age and gender (if available);
- Preferred time of day or month to conduct workshops:
- · A Gantt chart reflecting the construction programme, for scheduling of workshops;
- Suitable venues for workshops.

The Contractor shall submit the Service Provider Workshop Plan for approval within 21 days after the tender acceptance date. After approval by the Representative/Agent, the Contractor shall make available a suitable venue that will be conducive to education and training.

- 3.2 The Service Provider Workshop Plan shall address, but will not be limited to the following:
- 3.2.1 The nature of the disease;
- 3.2.2 How it is transmitted:
- 3.2.3 Safe sexual behaviour:
- 3.2.4 Post exposure services such as voluntary counselling and testing (VCT) and nutritional plans for people living with HIV/AIDS;
- 3.2.5 Attitudes towards other people with HIV/AIDS:
- 3.2.6 Rights of the Worker in the workplace;
- 3.2.7 How the Awareness Champion will be equipped prior to commencement of the HIV/AIDS awareness programme with basic HIV/AIDS information and the necessary skills to handle questions regarding the HIV/AIDS awareness programme on site sensitively and confidentially;
- 3.2.8 How the Service Provider will support the Awareness Champion;
- 3.2.9 Location and contact numbers of the closest clinics, VCT facilities, counselling services and referral systems;
- 3.2.10 How the workshops will be presented, including frequency and duration;
- 3.2.11 How the workshops will fit in with the construction programme;
- 3.2.12 How the Service Provider will assess the knowledge and attitude levels of attendees to structure workshops accordingly;
- 3.2.13 How the video will be used:
- 3.2.14 How the Service Provider will elicit maximum participation from the Workers;
- 3.2.15 A questions and answers slot (interactive session).

The Service Provider Workshop Plan shall encompass the Specific Learning Outcomes (SLO) as stipulated.

## 4 HIV/ AIDS AWARENESS EDUCATION AND TRAINING •

## 4.1 Workshops

The Contractor shall ensure that all Workers attend the workshops.

The workshops shall adequately deal with all the aspects contained in the Service Provider Workshop Plan. A video of HIV/AIDS in the construction industry, which can be obtained from all Regional Offices of the Department of Public Works, is to be screened to Workers at workshops. In order to enhance the



learning experience, groups of not exceeding 25 people shall attend the interactive sessions of the workshops.

## 4.2 Recommended practice

## 4.2.1 Workshop Schedule

Presenting information contained in the Service Provider Workshop Plan can be divided in as many workshop sessions as deemed practicable by the Contractor, provided that all Workers are exposed to all aspects of the workshops as outlined in the Service Provider Workshop Plan.

Breaking down the content of information to be presented to Workers into more than one workshop session however, has the added advantage that messages are reinforced over time while providing opportunity between workshop sessions for Workers to reflect and test information. Workers will also have an opportunity to ask questions at a following session.

## 4.2.2 Service Providers

A database of recommended Service Providers is available from all Regional Offices of the Department of Public Works.

## 4.2.3 HIV/AIDS Specific Learning Outcomes and Assessment Criteria

Workers shall be exposed to workshops for a minimum duration of two-and-a-half hours. In order to set a minimum standard requirement, the following specific learning outcomes and assessment criteria shall be met.

## 4.2.3.1 UNIT 1: The nature of HIV/AIDS

After studying and understanding this unit, the Worker will be able to differentiate between HIV and AIDS and comprehend whether or not it is curable. The Worker will also be able to explain how the HI virus operates once a person is infected and identify the symptoms associated with the progression of HIV/AIDS.

## Assessment Criteria:

- 1. Define and describe HIV and AIDS;
- 2. List and describe the progression of HIV/AIDS.

## 4.2.3.2 UNIT 2: Transmission of the HI virus

After studying and understanding this unit, the Worker will be able to identify bodily fluids that carry the HI virus. The Worker will be able to recognise how HIV/AIDS is transmitted and how it is not transmitted.

## Assessment Criteria:

- 1. Record in what bodily fluids the HI virus can be found;
- 2. Describe how HIV/AIDS can be transmitted;
- 3. Demonstrate the ability to distinguish between how HIV/AIDS is transmitted and misconceptions around transmittance of HIV/AIDS.

## 4.2.3.3 UNIT 3: HIV/AIDS preventative measures

After studying and understanding this unit, the Worker will comprehend how to act in a way that would minimise the risk of HIV/AIDS infection and to use measures to prevent the HI virus from entering the bloodstream.



## Assessment Criteria:

- 1. Report on how to minimise the risk of HIV/AIDS infection;
- 2. Report on precautions that can be taken to prevent HIV/AIDS infection;
- 3. Explain or demonstrate how to use a male and female condom;
- List the factors that could jeopardize the safety of condoms provided against HIV/AIDS Transmission.

## 4.2.3.4 UNIT 4: Voluntary HIV/AIDS counselling and testing

After studying and understanding this unit, the Worker will be able to recognise methods of testing for HIV/AIDS infection. The Worker will be able to understand the purpose of voluntary HIV/AIDS testing and pre- and post-test counseling.

## Assessment Criteria:

- 1. Describe methods of testing for HIV/AIDS infection;
- 2. Report on why voluntary testing is important;
- 3. Report on why pre- and post-test counselling is important.

## 4.2.3.5 UNIT 5: Living with HIV/AIDS

After studying and understanding this unit, the Worker will be able to recognise the importance of caring for people living with HIV/AIDS and be able to manage HIV/AIDS.

## Assessment Criteria:

- List and describe ways to manage HIV/AIDS;
- 2. Describe nutritional needs of people living with HIV/AIDS;
- 3. Describe ways to embrace a healthy lifestyle as a person living with HIV/AIDS;
- 4. Explain the need for counselling and support to people living with HIV/AIDS.

## 4.2.3.6 UNIT 6: Treatment options for people with HIV/AIDS

After studying and understanding this unit, the Worker will be familiar with the various treatments available to HIV/AIDS infected or potentially HIV/AIDS infected people.

## Assessment Criteria:

- Discuss anti-retroviral therapy;
- 2. List methods of treatment to prevent HIV/AIDS transmission from mother-to-child;
- 3. Describe the need for treatment of opportunistic diseases for people living with HIV/AIDS;
- 4. Describe post exposure prophylactics.

## 4.2.3.7 UNIT 7: The rights and responsibilities of Workers in the workplace with regard to HIV/AIDS

After studying and understanding this unit, the Worker will be able to identify the rights and responsibilities of the Worker living with HIV/AIDS in the workplace. The Worker will recognise the importance of accepting colleagues living with HIV/AIDS and treating them in a non-discriminative way.

## Assessment Criteria:

- 1. Discuss the rights of a person living with HIV/AIDS in the workplace;
- Discuss the responsibilities of a person living with HIV/AIDS in the workplace;
- 3. Report on why acceptance and non-discrimination of colleagues living with HIV/AIDS is important.



## 4.3 Displaying of plastic laminated posters and distribution of information booklets

The Contractor shall obtain a set of four laminated posters conveying different key messages and information booklets. The contractor should include the costs of posters and information booklets in his/her tender price.

The above-mentioned posters and information booklets have been prepared to raise awareness and to share information about HIV/AIDS and STI's.

Posters or display stands shall be displayed on site as soon as possible, but not later than 14 days after the date of site handover.

Posters shall be displayed in areas highly trafficked by Workers, including toilets, rest areas, the site office and compounds.

The posters on display must always be intact, clear and readable.

Information booklets must be distributed to all Workers as soon as possible, but not later than 14 days after site handover, or as soon as the Worker joins the site.

## 5 PROVIDING WORKERS WITH ACCESS TO CONDOMS

The Contractor shall provide and maintain condom dispensers and make both male and female condoms, complying with the requirements of SABS ISO 4074, available at all times to all Workers at readily accessible points on site, for the duration of the contract. The Contractor may obtain condom dispensers from the Department of Health and condoms may be obtained from the Local Clinic or the Department of Health.

At least one male and one female condom dispenser and a sufficient supply of condoms, all to the approval of the Representative/Agent, shall be made available on site within 14 days of site hand over. Contractors should note that arrangements to obtain condoms from the Department of Health Clinics prior to site hand over may be necessary, to ensure that condoms are available within 14 days of site handover.

Condoms shall be made available in areas highly trafficked by Workers, including toilets, the site office and compounds.

## 6 <u>ENSURING ACCESS TO HIV/AIDS TESTING AND COUNSELLING FACILITIES AND TREATMENT OF SEXUALLY TRANSMITTED INFECTIONS (STI)</u>

The Contractor shall provide Workers with the names of the closest Service Providers that provide HIV/AIDS testing and counselling and Clinics providing Sexually Transmitted Infection (STI) diagnosis and treatment. Information on these Service Providers and Clinics must be displayed on a poster of a size not smaller than A1 in an area highly trafficked by Workers.

## 7 APPOINTMENT OF AN HIV/AIDS AWARENESS CHAMPION

7.1 Within 14 days of site handover the Contractor shall appoint an Awareness Champion from amongst the Workers, who speaks, reads and writes English, who speaks and understands all the local languages spoken by the Workers and who shall be on site during all stages of the construction period. The Contractor shall ensure that the Awareness Champion has been trained by the Service Provider on basic HIV/AIDS information, the support services available and the necessary skills to handle questions regarding the HIV/AIDS programme in a sensitive and confidential manner.



- 7.2 The Awareness Champion shall be responsible for:
- 7.2.1 Liasing with the Service Provider on organising awareness workshops;
- 7.2.2 Filling condom dispensers and monitoring condom distribution;
- 7.2.3 Handing out information booklets;
- 7.2.4 Placing and maintaining posters.

## 8 MONITORING

The Contractor shall grant to the Representative/Agent reasonable access to the construction site, in order to establish that the Contractor complies with his obligations regarding HIV/AIDS awareness under this contract.

The Contractor must report problems experienced in implementing the HIV/AIDS requirements to the Representative/Agent.

The attached SITE CHECKLIST (SCHEDULE A) shall be completed and submitted at every construction progress inspection to the Representative/Agent.

The attached SERVICE PROVIDER REPORT (SCHEDULE B) shall be completed and submitted on a monthly basis to the Department's Project Manager, through the Representative/Agent.

The attached CONTRACTOR HIV/AIDS PROGRAMME REPORT (SCHEDULE C), a close out programme report, shall be completed by the Contractor at the end of the contract.

# SCHEDULE A

# HIV/AIDS PROGRAMME: SITE CHECKLIST

| _                               |                                 |                                       |
|---------------------------------|---------------------------------|---------------------------------------|
| ジュ とうきにつ コース                    |                                 | ler:                                  |
| THE VALUE TRUCKS WINE. STEECHED | When did construction commence: | Name of Departmental Project Manager: |

Please refer to HIV/AIDS Programme activities during the reporting period

| Tick the block if Contractor satisfactorily complied with specifications | ily complied with | n specifications |         |     |          |       |         |
|--|-------------------|------------------|---------|-----|----------|-------|---------|
| DATE   | Ы                 | ā                | ď       | 룝   | <u>a</u> | 룝     | ā       |
| 1  | M M G G           | M M C C          | M M O O | M M | M M Q Q  | MMGGG | M M O O |
| Programme implemented within 14 days of site handover                    | - 114             |                  |         |     |          |       |         |
| Awareness champion on site   |                   |                  |         |     |          |       |         |
| HIV/AIDS awareness service   |                   |                  |         |     |          |       |         |
| provider report  |                   |                  |         |     |          |       |         |
| Male condom dispenser  |                   |                  |         |     |          |       |         |
| Sufficient male condoms available  |                   |                  |         |     |          |       |         |
| Male condom dispenser in a highly  |                   |                  |         |     |          |       |         |
| trafficked area  | :                 |                  |         |     |          |       |         |
| Female condom dispenser  |                   |                  |         |     |          |       |         |
| Sufficient female condoms available                                      |                   |                  |         |     |          |       |         |
| Female condom dispenser in a   |                   |                  |         |     |          |       |         |
| highly trafficked area   |                   |                  |         |     |          |       |         |
| All four types of posters displayed                                      |                   |                  |         |     |          |       |         |
| Posters in a good condition  |                   |                  |         |     |          |       |         |
| Posters in a highly trafficked area                                      |                   |                  |         |     |          |       |         |
| Posters displayed on local support                                       |                   |                  |         |     |          |       |         |
| services: clinic & VCT centre  |                   |                  |         |     |          |       |         |
| Support service poster/s in highly                                       |                   |                  |         |     |          |       |         |
| trafficked area  |                   |                  | ;       |     |          |       |         |
| Support service poster/s in a good                                       |                   |                  |         |     |          |       |         |
| condition  |                   |                  |         |     |          |       |         |
|  |                   |                  |         |     |          |       |         |

SCHEDULE A

|  |                            |                                     |                                 |                     |                          |                                  | _                      |                      |                          |                            |                      |
|--|----------------------------|-------------------------------------|---------------------------------|---------------------|--------------------------|----------------------------------|------------------------|----------------------|--------------------------|----------------------------|----------------------|
|  |                            |                                     |                                 |                     |                          |                                  |                        |                      |                          |                            | Date                 |
| ing period   |                            |                                     |                                 |                     |                          |                                  |                        |                      |                          |                            | <b>U</b>             |
| mber for the report  |                            | te .                                |                                 |                     |                          | 0                                |                        |                      |                          |                            | 1                    |
| Please indicate the applicable number for the reporting period | Workers on payroll (at PI) | Sub-Contractors who will be on site | ior longer than 30 days (at Pt) | attendees           | Number of workshops held | Scheduled workshops according to | approved workshop plan | stributed            | Male condoms distributed | Female condoms distributed | ıtive/Agent          |
| Please ind   | Workers or                 | Sub-Contra                          | Merkaher t                      | vvorksnop attendees | Number of                | Scheduled                        | approved v             | Booklets distributed | Male condo               | Female cor                 | Representative/Agent |

Date

Contractor



| Date of progress inspection: (ccyy/mm/dd)          |                              |
|--|------------------------------|
| Reporting period: (ccyy/mm/dd)                     | to (ccyy/mm/dd)              |
| Deviations from HIV/AIDS awareness programme plan: |                              |
|  |                              |
|  |                              |
|  |                              |
|  |                              |
|  |                              |
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|  |                              |
| Corrective actions:                                |                              |
|  |                              |
|  |                              |
|  |                              |
|  |                              |
|  |                              |
|  |                              |
|  |                              |
|  |                              |
|  |                              |
| Representative/Agent                               | Departmental Project Manager |
|  |                              |
| Date   | Date                         |

SCHEDULE A



## SCHEDULE B

## HIV/AIDS AWARENESS PROGRAMME: SERVICE PROVIDER REPORT

| Reporting period:  | (ccyy/mm/dd)                          | to (ccyy/mm/dd)               |  |
|--------------------|---------------------------------------|-------------------------------|--|
| Number of worksh   | ops conducted in report               | ting period:                  |  |
| Number of schedu   | ıled workshops accordir               | ng to approved workshop plan: |  |
|                    |                                       |                               |  |
| Deviations from w  |                                       |                               |  |
|                    |                                       |                               |  |
|                    |                                       |                               |  |
|                    |                                       |                               |  |
| State reasons for  | deviating from workshop               | o plan:                       |  |
|                    |                                       |                               |  |
|                    |                                       |                               |  |
|                    | · · · · · · · · · · · · · · · · · · · |                               |  |
|                    |                                       |                               |  |
| Corrective actions | :                                     |                               |  |
|                    |                                       |                               |  |
|                    |                                       |                               |  |
|                    |                                       |                               |  |
|                    |                                       |                               |  |
|                    |                                       |                               |  |
| Service Provider   |                                       |                               |  |
| Date               |                                       | Data                          |  |
| Date               |                                       | Date                          |  |

SCHEDULE B





# HIV/AIDS AWARENESS PROGRAMME: WORKSHOP CONTENT ADDRESSED

| Fill in the applicable information with regard to each workshop conducted | regard to each w | orkshop conduc | ted  |         |         |         |     |
|---|------------------|----------------|------|---------|---------|---------|-----|
| LH  | S/M              | W/S            | S/M  | S/M     | W/S     | W/S     | W/S |
| DAIE  | DDMMM            | D D M M        | DDMM | M M O O | D D M M | D D M M |     |
| Content of workshop:  |                  |                |      |         |         |         |     |
| (Mark the content included)   |                  |                |      |         |         |         |     |
| SL01  |                  |                |      |         |         |         |     |
| SL02  |                  |                |      |         |         |         |     |
| SL03  |                  |                |      |         |         |         |     |
| SL04  |                  |                |      |         |         |         |     |
| SL05  |                  |                |      |         |         |         |     |
| SLO6  |                  |                |      |         |         |         |     |
| SLO7  |                  |                |      |         |         |         |     |
| HIV/AIDS in   |                  |                |      |         |         |         |     |
| construction video  |                  |                |      |         |         |         |     |
| Indicate the duration of the  |                  |                |      |         |         |         |     |
| workshop in hours   |                  |                |      |         |         |         |     |
| Total number of Workers   |                  |                |      |         |         |         |     |
| Indicate workshop venue   |                  |                |      |         |         |         |     |
|   |                  |                |      |         |         |         |     |
|   |                  |                |      |         |         |         |     |
|   |                  |                |      |         |         |         |     |
|   |                  |                |      |         |         |         |     |



# HIV/AIDS AWARENESS PROGRAMME: ATTENDANCE REGISTER

| Fill in  | Fill in your name and indicate attendance by ticking the appropriate date | ce by ticking th | e appropriate de | afe     |         |         |  |       |
|----------|---|------------------|------------------|---------|---------|---------|--|-------|
| DATE     | 1-  | S/M              | W/S              | W/S     | M/S     | S/      | S/ı  | S     |
| <u>.</u> |   | M M O O          | MMG              | M M O O | M M G G | M M O O | D D M M  | M M C |
| S<br>N   | NAMES   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         | And the state of t |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         |  |       |
|          |   |                  |                  |         |         |         | Added to the second of the sec |       |

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## SCHEDULE C

## CONTRACTOR HIV/AIDS PROGRAMME REPORT

| Project name:   |
|---|
| Project Location:   |
| Contract value of project: R  |
| Department of Public Works Project Manager:   |
| HIV/AIDS Programme duration: (ccyy/mm/dd) to (ccyy/mm/dd)   |
| AWARENESS MATERIAL  |
| Describe location of posters displayed during the programme:  |
| Comments on posters:  |
| Indicate total number of booklets distributed:  |
| Comments on booklets:   |
|   |
| CONDOMS   |
| Indicate total number of male condoms distributed:  |
| Indicate total number of female condoms distributed:  |
| Describe where male condom dispenser was placed:  |
| Describe where female condom dispenser was placed:  |
| HIV/AIDS WORKSHOPS  |
| Indicate the total number of HIV/AIDS workshops conducted:  |
| Indicate the duration of workshops:   |
| Indicate the total number of Workers that participated in the HIV/AIDS workshops:                             |
| Indicate the total number of Workers that were exposed to the video on HIV/AIDS in the Construction Industry: |
| Comments on HIV/AIDS workshops on site:   |
|   |

SCHEDULE C



| GENERAL  |   |            |              |  |
|--|---|------------|--------------|--|
| Briefly describe programme activities ar   | nd satisfaction with outcome:   |            |              |  |
| Additional comments, suggestions or ne   | eeds with regard to the HIV/A   | IDS awar   | eness pro    | grammes on site:                             |
|  |   |            |              |  |
| Please indicate if your company has a focussing on HIV/AIDS awareness raisi of HIV/AIDS Workers: | ormal HIV/AIDS policy<br>ng and care and support                                | Yes        | No           | Currently developing one                     |
| Please indicate if, to your knowledge, HIV/AIDS related sicknesses. One or m                     | you have lost any workers   | s during t | the duration | on of the project to related death:          |
| Excessive weight loss Reactive TB Hair loss Severe tiredness                                     | Coughing or chest pain<br>Pain when swallowing<br>Persistent fever<br>Diarrhoea |            | . Me<br>Me   | miting<br>eningitis<br>emory loss<br>eumonia |
| Number of HIV/AIDS-related deaths:   |   |            |              |  |
| Contractor   | Dat   | te         |              |  |
| Departmental Project Manager   | Dat   | te         |              |  |

## **Part 4: Site information**

## **C4 Site Information**



## PG-03.1 (EC) SITE INFORMATION - GCC (2010) 2<sup>nd</sup> Edition 2010

| Project title: | DCS: SUPPLY PRISON | AND INSTALLA | TION OF B | ACK UP POWER  | GENERATOR AT BETHULIE |
|----------------|--------------------|--------------|-----------|---------------|-----------------------|
| Tender no:     | BL23/008           | WCS no:      | 051561    | Reference no: | 4/1/1/1/35/6705       |

## **C4 Site Information**

The site is located at Bethulie Prison, Free State Province.

Ground condition are flat.