



TENDER NUMBER: GEP001-SUPERBLOCK/18

ISSUED BY:

GAUTENG ENTERPRISE PROPELLER

124 Main Street

6th Floor Marshalltown

Johannesburg

2107

Telephone: 011 085 2002

NAME OF THE TENDERER: :
TEL NUMBER :
FAX NUMBER :

PART A – BUILDING WORK

PART B – ELECTRICAL, ELETRONIC INSTALLATIONS (Separate Document)
PART C – MECHANICAL INSTALLATION (Separate Document)

**TENDER FOR THE APPOINTMENT OF A CONTRACTOR FOR
CONSTRUCTION OF JEWELLERY MANUFACTURING PRECINCT
(JMP) SUPERBLOCK BUILDING: (BUILDING 4)**

FEBRUARY 2018

PART A – BUILDING WORK

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Number | Heading

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PART T1: TENDERING PROCEDURES.....

T1.1: Tender Notice and Invitation to Tender

PART T1: TENDERING PROCEDURES

T1.1: Tender Notice and Invitation to Tender

Tender for the appointment of a contractor for Construction Jewellery Manufacturing Precinct (JMP) Superblock Building: (Building 4)

Tender No. GEP001-SUPERBLOCK/18

Gauteng Enterprise Propeller (GEP) invites tenders for the Contractor to carry **Construction of Jewellery Manufacturing Precinct (JMP) Superblock Building: (Building 4)**. The tender will be evaluated in terms of the 90:10 preferential points system in accordance with the Preferential Procurement Policy Framework Act No. 5 of 2000 (as amended) and also the PPPFA Regulations 2017 that became effective on the 1st April 2017.

Bidders should have a CIDB contractor grading of **9GB or 8PE GB**. The following prequalification criteria apply:-

- The tenderer must have minimum B-BBEE status level of contributor of Level 3;
- The tenderer must subcontract a minimum of 30% to either, or a combination of:-
 - o an EME or QSE which is at least 51% owned by black people who are youth;
 - o an EME or QSE which is at least 51% owned by black people who are women;
 - o an EME or QSE which is at least 51% owned by black people with disabilities;
 - o an EME or QSE which is 51% owned by black people living in rural or underdeveloped areas or townships;
- A tender that fails to meet any pre-qualifying criteria stipulated above is an unacceptable tender.

The bid documents are to be downloaded online for free on www.gauteng.net

Supply Chain Management and Technical enquiries relating to the issuing of these documents may be addressed to superblockidz@gep.co.za.

A Compulsory Clarification Meeting with representatives of the Employer will take place at the Offices of Gauteng Enterprise Propeller:- **10th Floor, 124 Main street, Marshalltown, Johannesburg at 11:00am on 02nd February 2018.**

Tenderers to bring personal ID Documents with for security access at reception.

The compulsory site meeting is to be attended by a technical person as the clarification meeting will further elaborate on the tender requirements and scope of works.

Only one person may be authorised to sign on behalf of each company or tenderer.

The tender will close on **23rd February 2018 at 11:00 am**, at Gauteng Enterprise Propeller, Main Reception Ground Floor, 124 Main Street, Marshalltown, Johannesburg, 2107. Telegraphic, telephonic, telex, facsimile, e-mail and late tenders will not be accepted.

Tenders may only be submitted on the tender documentation that is issued by electronic means. The retyping of the tender document is not permitted. Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the Tender Data.

Name of the Tendering Entity:

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T1.2: Tender Data

Conditions of Tender.....

T1.2: Tender Data**T1.2 TENDER DATA**

The conditions of Tender are the **Standard Conditions of Tender** as contained in Annexure F of the CIDB Standard for Uniformity in Construction Procurement, as printed in the **Government Gazette No 31823** dated **30 January 2009**. The under mentioned items of data and deviations will have precedence over the Standard Conditions of Tender conditions in Annexure F.

A tender that fails to meet any of the conditions of the standard for uniformity will render the submission to is an unacceptable tender.

The **Standard Conditions of Tender for Procurements** 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.

Clause number	Data
F.1.1 ACTIONS	Employer is: Gauteng Enterprise Propeller 6th Floor, 124 Main street, Marshalltown, Johannesburg
F.1.2 TENDER DOCUMENTS	The Tender documents issued by the Employer comprise: THE TENDER Part T1 Tendering procedures Part T1.1 Tender notice and invitation to Tender Part T1.2 Tender data Part T2 Returnable documents Part T2.1 List of returnable documents Part T2.2 Returnable schedules THE CONTRACT Form W Local Content Part C1 Agreements and contract data C1.1 Form of offer and acceptance C1.2 Contract data C1.3 Form of Guarantee C1.4 Agreement compliance with Construction Regulations Part C2 Pricing Data C2.1 Pricing Instructions C2.2 Bill of Quantities Part C3 Scope of Works C3.1 Scope of Works C3.2 Drawings Part C4 Site Information C4.1 Site Information
F.1.4 COMMUNICATION AND EMPLOYER'S AGENT	The Employer's Agent is: Silverhorns Consulting Name : Mr Thabo Munyai Address Corner House 77 Commissioner Street, Marshalltown, Johannesburg 2000

Name of the Tendering Entity:

Clause number	Data
	Only those Tenderers who are registered with the CIDB in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a 9GB or 8PE GB class of construction work. Joint Ventures are eligible to submit Tenders provided that: (1) each member of the joint venture is registered with the CIDB, (2) the lead partner rule will also apply, and (3) the combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations (according to the CIDB website Joint Venture Grading Designation Calculator) is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a 8GB class of construction work.
F.2.7 CLARIFICATION MEETING	The arrangements for a compulsory information session are: 10th Floor, 124 Main street, Marshalltown, Johannesburg Date: 02ndFebruary2018, Starting time: 11:00 am Tenderers to bring personal ID Documents with for security access at reception.
F.2.12 ALTERNATIVE TENDER OFFERS	Alternative Tender Offers will not be entertained.
F.2.13.3 SUBMITTING A TENDER OFFER	Submit the tender offer communicated electronically as an original plus A copy of the Tender document will also be required (One Original and One Copy are to be submitted by the Tenderers).The parts communicated electronically to remain in the same format as they were issued by the employer.
F.2.13.5 SUBMITTING A TENDER OFFER	The Employer's address for delivery of Tender offers and identification details to be shown on each Tender offer package are: Location of Tender box: Gauteng Enterprise Propeller, Ground Floor, 124 Main Street, Marshalltown, Johannesburg, 2107 Identification details: Tender Number: GEP001-SUPERBLOCK/18 Description of project:TENDER FOR THE APPOINTMENT OF A CONTRACTOR FOR CONSTRUCTION OF JEWELLERY MANUFACTURING PRECINCT (JMP) SUPERBLOCK BUILDING: (BUILDING 4)
F.2.15 CLOSING TIME	The closing time for submission of Tender offers is: 11:00 AM on 23rdFebruary 2018. Telephonic, telegraphic, telex, facsimile or e-mailed Tender offers will NOT be accepted.
F.2.16 TENDER OFFER VALIDITY	The Tender offer validity period is 90 days .
F.2.18 PROVIDE OTHER MATERIAL	Not Applicable.
F.2.19	To be Advised before the award (if necessary).

Name of the Tendering Entity:

Clause number	Data
INSPECTIONS, TESTS AND ANALYSIS	
F.2.23 CERTIFICATES	As per the Tender Returnable Schedules and Document (ENVELOPE A)
F.3.4 OPENING OF TENDER SUBMISSIONS	The time and location for opening of the tender offers: Since the Two Envelope System will be used, the Tenders will not be opened in Public, except making known the names of companies that submitted the tender offers. Location for Announcement of the companies that submitted the Tenders: To be uploaded onto the GEP website www.gauteng.net
F.3.5 TWO-ENVELOPE SYSTEM	A two-envelope procedure will be followed, tenders will not be opened in public <u>ENVELOPE A: TECHNICAL OFFER</u> THE TENDER Part T1 Tendering procedures Part T1.1 Tender notice and invitation to Tender Part T1.2 Tender data Part T2 Returnable documents Part T2.1 List of returnable documents Part T2.2 Returnable schedules <u>ENVELOPE B: FINANCIAL OFFER</u> THE CONTRACT Form A Subcontracting Percentage Form W Local Content Part C1 Agreements and contract data C1.1 Form of offer and acceptance C1.2 Contract data C1.3 Form of Guarantee C1.4 Agreement compliance with Construction Regulations Part C2 Pricing Data C2.1 Pricing Instructions C2.2 Bill of Quantity Part C3 Scope of Works C3 Scope of Works Part C4 Site Information C4 Site Information
F.3.9 3.9.2 ARITHMETICAL ERRORS	The employer will correct the arithmetical errors in the following manner: a) Where there is a discrepancy between the amounts in words and amounts in figures, the amount in words shall govern. b) If bills of quantities or pricing schedules apply and there is an error in the line item total resulting from the product of the unit rate and the quantity, the line item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement

Clause number	Data
	of the decimal point in the unit rate, the line item total as quoted shall govern, and the unit rate shall be corrected. c) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern and the tenderer will be asked to revise selected item prices (and their rates if bills of quantities apply) to achieve the tendered total of the prices. Consider the rejection of a tender offer if the tenderer does not correct or accept the correction of the arithmetical error in the manner described above
F.3.11 EVALUATION OF TENDER OFFERS	The preference procedure for evaluation of responsive Tender offers shall be the 90/10 point preference system, being a maximum of 90 points for price and a maximum of 10 points for B-BBEE Status level of Contributor substantiated by the Broad-Based Black Economic Empowerment Status Level Certificate to be submitted in accordance with Regulation 10 of the Preferential Procurement Regulations, 2017 (As Amended). The procedure for the evaluation of responsive tenders will be Method 2 (Functionality, Price and Preferences). The evaluation of the tender shall be conducted in Five Stages: - ü Stage 1: Administrative / Statutory Compliance / Responsiveness Assessment - ü Stage 2: Prequalification Assessment - ü Stage 3: Functionality / Quality Evaluation (threshold) - ü Stage 4: Financial Offer Evaluation (Formula) - ü Stage 5: B-BBEE Rating Status Evaluation (90:10). Add the B-BBEE Rating Status Points & Financial Points to get the Final Points for award Stage 1: Administrative / Statutory Compliance / Responsiveness Assessment - ü Submission of Valid Returnable Documents - Ø Registration on Central Supplier Database (CSD) with Active Status - Ø Registration with CIDB in the appropriate category - ü Administrative issues - Ø Use of Correction Fluid in the Tender Document is not permitted - Ø Printing and submission of the whole electronic issued Tender Document - Ø Retyping of the Tender Document or sections thereof is not permitted - ü Completeness of the Returnable Schedules and Documents - Ø Audited Financial Statements for the previous 2 financial years - Ø Original Bank Rating letter, signed and stamped by the issuing institution - ü Signing of All Returnable Schedules where so indicated Stage 2: Prequalification Assessment - Ø Subcontractors only from the CSD query list provided with this tender - Ø Signed subcontract agreement stating the subcontract sum - Ø Registration with CIDB and other relevant Statutory Organisations for each Subcontractor - Ø Stage 3: Functionality / Quality Evaluation - Ø The evaluation for functionality / quality will only be based on the information submitted by the tenderers. Please note that no preferences may be granted to incomplete claims for preferences.

Name of the Tendering Entity:

Clause number	Data																													
	Ø Score quality / functionality, rejecting all tender offers that fail to score the minimum number of points for quality / functionality stated in the Tender Data (If Any);																													
	<table><tr><th>Functionality / Quality Criteria</th><th>W</th><th>Total Points</th></tr><tr><td>Experience of the Tendering Entity as detailed on Form J</td><td></td><td></td></tr><tr><td>Ø Value of similar Building Work at or above 8GB (R40M) work carried out by the tendering entity on Practical completion in the last 5 years</td><td>5</td><td></td></tr><tr><td> o 5 x Final Completion Certificate (5 points) o 4 x Final Completion Certificate (4 points) o 3 x Final Completion Certificate (3 points) o 2 x Final Completion Certificate (2 points) o 1 x Final Completion Certificate (1 points) o No Signed Final Account Statement (0 Points) </td><td></td><td></td></tr><tr><td>Reference (Happy Letter) by way of completion of Form U (included in this document on Page 57) issued by previous / current clients of the tendering entity for work done in the last 5 years</td><td>5</td><td></td></tr><tr><td> o 5 x Reference Forms from Previous / Current Clients (5 points) o 4 x Reference Forms from Previous / Current Clients (4points) o 3 x Reference Forms from Previous / Current Clients (3 points) o 2 x Reference Forms from Previous / Current Clients (2 points) o 1 x Reference Forms from Previous / Current Client (1 points) o No Reference Forms (0 Points) </td><td></td><td></td></tr><tr><td>Expertise of the Key Personnel of the Tendering Entity to be supported by CVs signed by the relevant person and dated and copies of relevant qualifications and professional registration to be submitted with the bid. All documents to be dated and certified within 3 months of the date of submission of the bid.</td><td></td><td></td></tr><tr><td>Ø Experience of the Contracts Manager – Number of years on similar Building Works of 9GB or 8PE GB or higher similar size of projects:</td><td></td><td></td></tr><tr><td> o 7 Years or more (5 Points) o 5 to 7 Years (4 Points) o 3 to 5 Years (3 Points) o 2 to 3 Years (2 Points) o 1 to 2 Year (1 Points) o Below 1 Year (0 Points) </td><td>5</td><td></td></tr></table>			Functionality / Quality Criteria	W	Total Points	Experience of the Tendering Entity as detailed on Form J			Ø Value of similar Building Work at or above 8GB (R40M) work carried out by the tendering entity on Practical completion in the last 5 years	5		o 5 x Final Completion Certificate (5 points) o 4 x Final Completion Certificate (4 points) o 3 x Final Completion Certificate (3 points) o 2 x Final Completion Certificate (2 points) o 1 x Final Completion Certificate (1 points) o No Signed Final Account Statement (0 Points)			Reference (Happy Letter) by way of completion of Form U (included in this document on Page 57) issued by previous / current clients of the tendering entity for work done in the last 5 years	5		o 5 x Reference Forms from Previous / Current Clients (5 points) o 4 x Reference Forms from Previous / Current Clients (4points) o 3 x Reference Forms from Previous / Current Clients (3 points) o 2 x Reference Forms from Previous / Current Clients (2 points) o 1 x Reference Forms from Previous / Current Client (1 points) o No Reference Forms (0 Points)			Expertise of the Key Personnel of the Tendering Entity to be supported by CVs signed by the relevant person and dated and copies of relevant qualifications and professional registration to be submitted with the bid. All documents to be dated and certified within 3 months of the date of submission of the bid.			Ø Experience of the Contracts Manager – Number of years on similar Building Works of 9GB or 8PE GB or higher similar size of projects:			o 7 Years or more (5 Points) o 5 to 7 Years (4 Points) o 3 to 5 Years (3 Points) o 2 to 3 Years (2 Points) o 1 to 2 Year (1 Points) o Below 1 Year (0 Points)	5	
	Functionality / Quality Criteria	W	Total Points																											
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Name of the Tendering Entity:

Clause number	Data			
	Ø Experience of the Construction Manager Site Agent – Number of years on similar Building Works of 9GB or 8PE GB (R40M) or higher similar size of projects:			
	- o 7 Years or more (5 Points) - o 5 to 7 Years (4 Points) - o 3 to 5 Years (3 Points) - o 2 to 3 Years (2 Points) - o 1 to 2 Year (1 Points) - o Below 1 Year (0 Points)	5		
	Ø Experience of the OHS Manager – Number of years on similar Building Works of 9GB or 8PE GB (R40M) or higher similar size of projects:			
	- o 7 Years or more (5 Points) - o 5 to 7 Years (4 Points) - o 3 to 5 Years (3 Points) - o 2 to 3 Years (2 Points) - o 1 to 2 Year (1 Points) - o Below 1 Year (0 Points)	5		
	Ø Experience of the Quantity Surveyor – Number of years on similar Building Works of 9GB or 8PE GB or higher similar size of projects:			
	- o 7 Years or more (5 Points) - o 5 to 7 Years (4 Points) - o 3 to 5 Years (3 Points) - o 2 to 3 Years (2 Points) - o 1 to 2 Year (1 Points) - o Below 1 Year (0 Points)	5		
	Ø Experience of the General Foreman – Number of years on similar Building Works of 9GB or 8PE GB or higher similar size of projects:			
	- o 7 Years or more (5 Points) - o 5 to 7 Years (4 Points) - o 3 to 5 Years (3 Points) - o 2 to 3 Years (2 Points) - o 1 to 2 Year (1 Points) - o Below 1 Year (0 Points)	5		

Name of the Tendering Entity:

Clause number	Data			
	Ø Experience of the Building Services Manager– Number of years on similar Building Works of 9GB or 8PE GB or higher similar size of projects:			
	- o 7 Years or more (5 Points) - o 5 to 7 Years (4 Points) - o 3 to 5 Years (3 Points) - o 2 to 3 Years (2 Points) - o 1 to 2 Year (1 Points) - o Below 1 Year (0 Points)	5		
	Individual value of projects handled by the Key Personnel on a Building Works project of 9GB or 8PE GB or higher nature:			
	Contracts Manager:- - o Above R40 million (5.0 Points) - o R13 million to R40 million (4.0 Points) - o R6.5 million to R13 million (3.0 Points) - o R4 million to R6.5 million (2.0 Points) - o R2 million to R4million (1.0 Points) - o Below R2 million (0.0 Points)	5		
	Construction Manager Site Agent:- - o Above R40 million (5.0 Points) - o R13 million to R40 million (4.0 Points) - o R6.5 million to R13 million (3.0 Points) - o R4 million to R6.5 million (2.0 Points) - o R2 million to R4million (1.0 Points) - o Below R2 million (0.0 Points)	5		
	OHS Manager:- - o Above R40 million (5.0 Points) - o R13 million to R40 million (4.0 Points) - o R6.5 million to R13 million (3.0 Points) - o R4 million to R6.5 million (2.0 Points) - o R2 million to R4million (1.0 Points) - o Below R2 million (0.0 Points)	5		
	Quantity Surveyor:- - o Above R40 million (5.0 Points) - o R13 million to R40 million (4.0 Points) - o R6.5 million to R13 million (3.0 Points) - o R4 million to R6.5 million (2.0 Points) - o R2 million to R4million (1.0 Points) - o Below R2 million (0.0 Points)	5		
	General Foreman:- - o Above R40 million (5.0 Points) - o R13 million to R40 million (4.0 Points) - o R6.5 million to R13 million (3.0 Points) - o R4 million to R6.5 million (2.0 Points) - o R2 million to R4million (1.0 Points) - o Below R2 million (0.0 Points)	5		

Name of the Tendering Entity:

Clause number	Data			
	Building Services Manager:- - o Above R40 million (5.0 Points) - o R13 million to R40 million (4.0 Points) - o R6.5 million to R13 million (3.0 Points) - o R4 million to R6.5 million (2.0 Points) - o R2 million to R4million (1.0 Points) - o Below R2 million (0.0 Points)	5		
	Capacity of the Tendering Entity (Refer to FORM page 45 Section T2.2) Ø Plant and Equipment - o Has all listed required equipment (10 points) - o Intends Leasing some of the required Equipment (7 points) - o Intends Leasing all the required Equipment (4 points) - o Does not have any of the required equipment (0 points) Bidders must provide Proof of Ownership or Letter of Intent from Plant Hire company to lease the equipment	10		

Name of the Tendering Entity:

Clause number	Data		
	Execution Plan / Methodology by the Tendering Entity		
	Ø Methodology o Site Establishment (1.0 points) o Concrete Works (2.0 point) o Façade Works (1.0 points) o Engineering Services (2.0 points) o Specialist Items (2.0 points) o Finishes (2.0 points) Ø Programme of Work o Task List Shows full Scope of Works (1.0 point) o Reasonable Duration for each task (1.0 point) o Linkage between tasks and sequencing thereof (1.0 point) Ø Quality Control o Quality Control Practices and Procedures Must Include Quality Management System, Health And Safety Plan And An Environmental Management Plan. (5.0 Points)	10 3 5	
	Financial Standing of the Tendering Entity o Bank rating letter stamped and signed by the issuing institution o Bank Code A (5.0 points) o Bank Code B (3.0 points) o Bank Code C (1.0 points) o No Bank Code (0.0 points)	5	
	Total Functionality / Quality	100	
The minimum threshold for the functionality evaluation is 70 points . The Tenderers that do not meet this minimum threshold will not proceed to the next stage of evaluation of the tender.			

Clause number	Data								
	Stage 4: Process for the calculation of preference points The process for the evaluation of tender offers will be as follows: - ü Score tender evaluation points for financial offer; - ü The Preference Point System assigns a score to each tenderer on tender price, using the following formula: <u>The Formula of scoring the tender Price for Tenders above R50, 000,000 (90:10)</u> For this tender the 90:10 preference points system will be used. $P_s = 90 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right)$ Where P_t = Preference points for price of tender under consideration; P = Rand value of tender under consideration; and P_{min} = Rand value of the lowest acceptable tender. Stage 5: Evaluation of the B-BBEE Status Rating - ü Score the tender evaluation points for B-BBEE Status level of Contributor in accordance with the rating reflected in the submitted B-BBEE Rating Certificate. <table border="1"> <thead> <tr> <th>B-BBEE Status Level of Contributor</th><th>Number of Points (90/10)</th></tr> </thead> <tbody> <tr> <td>1</td><td>10</td></tr> <tr> <td>2</td><td>9</td></tr> <tr> <td>3</td><td>6</td></tr> </tbody> </table> - ü Add the total tender evaluation points for Price and B-BBEE Status; - ü Rank tender offers from the highest number of tender evaluation points to the lowest; and recommend the tenderer with the highest number of tender evaluation points for the award of the contract.	B-BBEE Status Level of Contributor	Number of Points (90/10)	1	10	2	9	3	6
B-BBEE Status Level of Contributor	Number of Points (90/10)								
1	10								
2	9								
3	6								
F.3.13.1 ACCEPTANCE OF TENDER OFFER	Tenders containing any one or more of the errors or omissions, or Tenders not having complied with any one of the peremptory Tender conditions as detailed in this Tender document, shall not be considered and shall automatically be rejected.								
F.3.18 PROVIDE COPIES OF THE CONTRACTS	The number of paper copies of the signed contract to be provided by the Employer is ONE .								

Name of the Tendering Entity:

Clause number	Data
ADDITIONAL CONDITIONS APPLICABLE TO THIS TENDER	The additional conditions of Tender are: 1 The Employer/Engineer may also request that the Tenderer provide written evidence that his financial, labour and other resources are adequate for carrying out the contract. 2 The Employer reserves the right to appoint a firm of chartered accountants and auditors and/or execute any other financial investigations on the financial resources of any Tenderer. The Tenderer shall provide all reasonable assistance in such investigations. 3 The Tender document shall be submitted as a whole and shall not be taken apart. 4 List of returnable documents (PART T2) must be completed in full (A Tenderer's company profile will not be used by the Gauteng Enterprise Propeller to complete PART T2 on behalf of the Tenderer) NB: If PART T2 is not completed in full by the Tenderer, this offer will be rejected.

RETURNABLE DOCUMENTS

LIST OF RETURNABLE DOCUMENTS

THE TENDERER MUST SUBMIT THE FOLLOWING DOCUMENTS WITH THIS TENDER. IF THE DOCUMENTS ARE NOT INCLUDED IN THE DOCUMENT, THE GAUTENG ENTERPRISE PROPELLER WILL NOT CONSIDER THIS TENDER.

Clause referred to in Standard Conditions of Tender	Document
F.2.1	Tenderers shall provide their CRS Number of registered Contractor as well as JV Partner*. CRS Number of Tenderers or JV Partners must be filled in below: NB: In cases where a bidder intends to form a Joint Venture, the CRS number/s must be filled in below i.e. the Lead partner and Joint Venture partner/s: <u>Tenderer/Leading JV Partner</u> CRS Number: _____ Name of Company: _____ <u>JV Partner</u> CRS Number: _____ Name of Company: _____ <u>JV Partner</u> CRS Number: _____ Name of Company: _____ All contractors, even tendering in JV, must be registered with CIDB. The lead Partner must have Category 9GB or 8PE GB or HIGHER Contractor *NB: Recent printout from CIDB website indicating the CRS number will also be accepted.
F.2.7	Attendance of the Compulsory Site Clarification meeting and submission of the signed Form K as stipulated.
F.2.10	Form of Offer must be completed and signed by duly authorised person.
F.2.11	Tampering with or taking apart the bound document is strictly prohibited. All additional documentation must be stapled into the tender document or attached in a separate file. Corrections in terms of price must not be made by means of a correction fluid such as Tipp-Ex or similar product. In the event of mistakes having been made on Form of Offer it must be crossed out in ink and be accompanied by an initial at each and every price alteration.
F.2.13.4	Authority of Signatory to sign the Form of Offer and where required in tender document (See Form D).
F.2.28	Bidders must ensure compliance with their tax obligations. Bidders are required to submit their unique personal identification number (PIN) issued by SARS to enable the organ of state to view the taxpayer's profile and tax status.

Part T2: Returnable Documents
Section T2.1: List of Returnable Documents

	Application for tax compliance status (TCS) or pin may also be made via e-filing. In order to use this provision, taxpayers will need to register with SARS as e-filers through the website www.sars.gov.za. Bidders may also submit a printed TCS together with the bid. In bids where Consortia / Joint Ventures / Sub-contractors are involved, each party must submit a separate proof of TCS / PIN / CSD number. A trust, consortium or joint venture (including unincorporated consortia and joint ventures) must submit a consolidated B-BBEE Status Level Verification Certificate for every separate tender. Where no TCS is available but the bidder is registered on the central supplier database (CSD), a CSD number must be provided.
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Part T2: Returnable Documents
Section T2.1: List of Returnable Documents

<u>SECTION T2.2.1:</u>	<u>FORM A: SCHEDULE OF PROPOSED SUBCONTRACTORS</u>
<u>SECTION T2.2.2:</u>	<u>FORM B: PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017(SBD 6.1)</u>
<u>SECTION T2.2.3:</u>	<u>FORM C: RECORD OF ADDENDA TO TENDER DOCUMENTS</u>
<u>SECTION T2.2.4:</u>	<u>FORM D: AUTHORITY OF SIGNATORY</u>
<u>SECTION T2.2.5:</u>	<u>FORM E: STATUS OF CONCERN SUBMITTING TENDER</u>
<u>SECTION T2.2.6:</u>	<u>FORM F: DECLARATION OF INTEREST (SBD 4)</u>
<u>SECTION T2.2.7:</u>	<u>FORM G: DECLARATION OF TENDERER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES (SBD 8)</u>
<u>SECTION T2.2.8:</u>	<u>FORM H: CERTIFICATE OF INDEPENDENT BID DETERMINATION (SBD9)</u>
<u>SECTION T2.2.9:</u>	<u>FORM I: SCHEDULE OF PLANT AND EQUIPMENT</u>
<u>SECTION T2.2.10:</u>	<u>FORM J: SCHEDULE OF WORK CARRIED OUT BY THE TENDERER</u>
<u>SECTION T2.2.11:</u>	<u>FORM K: CERTIFICATE OF TENDERER'S COMPULSORY SITE CLARIFICATION MEETING ATTENDANCE</u>
<u>SECTION T2.2.12:</u>	<u>FORM L: KEY-PERSONNEL/ SUPERVISORY AND MANAGEMENT STAFF</u>
<u>SECTION T2.2.13:</u>	<u>FORM M: QUALITY MANAGEMENT SYSTEMS</u>
<u>SECTION T2.2.14:</u>	<u>FORM N: COMPLIANCE WITH OHSA (ACT 85 OF 1993)</u>
<u>SECTION T2.2.15:</u>	<u>FORM O: VALID TAX CLEARANCE CERTIFICATE</u>
<u>SECTION T2.2.16:</u>	<u>FORM P: PRELIMINARY PROGRAMME</u>
<u>SECTION T2.2.17:</u>	<u>FORM Q: ESTIMATED MONTHLY EXPENDITURE</u>
<u>SECTION T2.2.18:</u>	<u>FORM R: ALTERATIONS BY TENDERER</u>
<u>SECTION T2.2.19:</u>	<u>FORM S.1: SUPPLIER MAINTENANCE FORM</u>
<u>SECTION T2.2.20:</u>	<u>FORM T: DECLARATION CERTIFICATE FOR LOCAL LABOUR PARTICIPATION</u>
<u>SECTION T2.2.21:</u>	<u>FORM U: TENDERERS PERFORMANCE EVALUATION FORM</u>
<u>SECTION T2.2.22:</u>	<u>FORM V : COMPULSORY ENTERPRISE QUESTIONNAIRE</u>

RETURNABLE SCHEDULES

FORM A: SUBCONTRACTING PERCENTAGE

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

#	CSD Query #	Name of Subcontractor	Value of Work to be subcontracted (Incl. VAT)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
	a	Total Amount of Subcontracted Works (Incl. VAT)	
	b	Tender Sum (Incl. VAT)	
	c	Percentage Subcontracted (c=a/b)	

Note: ***Tenderer to provide a signed copy of the fully completed JBCC Subcontract agreement (Ed 6.1) between both parties***

If we are awarded a contract, we agree that this notification does not change the requirement for us to submit the names of proposed Subcontractors in accordance with requirements in the contract for such

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appointments. If there are no such requirements in the contract, then your written acceptance of this list shall be binding between us. The contractor is to obtain approval if he/she intends to change the submitted list of Subcontractors.

.....
Signature

.....
Date

.....
Name of Bidder

.....
Position of Signatory



FORM B: PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017 (SBD 6.1)

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

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

1. GENERAL CONDITIONS

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

- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 Points for this bid shall be awarded for:

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

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

	POINTS
PRICE	90
B-BBEE STATUS LEVEL OF CONTRIBUTOR	10
Total points for Price and B-BBEE must not exceed	100

- 1.4 Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.
- 1.5 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

2. DEFINITIONS

- (a) **“B-BBEE”** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (b) **“B-BBEE status level of contributor”** means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (c) **“bid”** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or proposals;
- (d) **“Broad-Based Black Economic Empowerment Act”** means the Broad-Based Black

Economic Empowerment Act, 2003 (Act No. 53 of 2003);

- (e) **“EME”** means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (f) **“functionality”** means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.
- (g) **“prices”** includes all applicable taxes less all unconditional discounts;
- (h) **“proof of B-BBEE status level of contributor”** means:
 - 1) B-BBEE Status level certificate issued by an authorized body or person;
 - 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
 - 3) Any other requirement prescribed in terms of the B-BBEE Act;
- (i) **“QSE”** means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (j) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

3. POINTS AWARDED FOR PRICE

3.1 THE 90/10 PREFERENCE POINT SYSTEMS

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

90/10

$$P_s = 90 \times \frac{P_t - P_{\min}}{P_{\min} - P_{\max}}$$

Where

P_s = Points scored for price of bid under consideration

P_t = Price of bid under consideration

$P_{\min}$ = Price of lowest acceptable bid

4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR

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

B-BBEE Status Level of Contributor	Number of points (90/10 system)
1	10
2	9
3	6

5. BID DECLARATION

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

6. B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

6.1 B-BBEE Status Level of Contributor. =(maximum of 10 points)

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

7. SUB-CONTRACTING

7.1 Refer to Form A

8. DECLARATION WITH REGARD TO COMPANY/FIRM

8.1 Name of company/firm:.....

8.2 VAT registration number:.....

8.3 Company registration number:.....

8.4 TYPE OF COMPANY/ FIRM

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

[TICK APPLICABLE BOX]

8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....
.....
.....
.....

8.6 COMPANY CLASSIFICATION

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

[TICK APPLICABLE BOX]

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8.7 Total number of years the company/firm has been in business:.....

8.8 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contributor indicated in paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
 - (a) disqualify the person from the bidding process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury 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.

SIGNATURE(S) OF BIDDERS(S)

DATE:

ADDRESS

.....

.....

WITNESSES

1.

2.

FORM C: RECORD OF ADDENDA TO TENDER DOCUMENTS

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:

Date		Title of Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		
17.		
18.		
19.		

Attach additional pages if more space is required.

Signature of person authorised to sign the tender:

Date:

FORM D: AUTHORITY OF SIGNATORY

Signatories for companies, closed corporations and partnerships must establish their authority **BY ATTACHING TO THIS FORM, ON THEIR ORGANISATIONS'S LETTERHEAD STATIONERY**, a copy of the relevant resolution by their Board of Directors, Members or Partners, duly signed and dated.

An **EXAMPLE** is shown below for a COMPANY:

XYZ CONSTRUCTION (Pty) Ltd

By resolution of the Board of Directors taken on *20 May 2000, MR A.F JONES*

has been duly authorised to sign all documents in connection with Contract no CON 0005, and any contract which may arise therefrom, on behalf of XYZ Construction (PTY) Lt

SIGNED ON BEHALF OF THE COMPANY: (Signature of Managing Director)

IN HIS CAPACITY AS: Managing Director

DATE: 20 May 2000

SIGNATURE OF SIGNATORY: (Signature of A.F Jones)

As witnesses:

1.

2.

Signature of person authorised to sign the tender:

Date:

FORM E: STATUS OF CONCERN SUBMITTING TENDER

1. GENERAL

State whether the tenderer is a company, a closed corporation, a partnership or a one-man concern.
(Make an X in the appropriate space below)

Company ☐ Closed Corporation ☐ Partnership ☐
One-man concern ☐ Joint Venture ☐

2. INFORMATION TO BE PROVIDED

(Block letters)

2.1 If the tenderer is a Company:

- (a) Affix a certified copy of the Certificate of Incorporation to this page.
- (b) List the Directors.

2.2 If the tenderer is a Closed Corporation:

- (a) Affix a certified copy of the Founding Statement to this page.
- (b) List the Members.

2.3 If the tenderer is a Partnership:

List the partners.

2.4 If the tenderer is a One-man concern:

Provide the full name and ID number of the person.

2.5 If the tenderer is a Joint Venture:

- (a) Affix a certified copy of the Founding Statement of each partner of the JV to this page.
- (b) Affix JV agreement.

3. REGISTERED FOR VAT PURPOSES IN TERMS OF THE VALUE-ADDED TAX ACT, (Act Nr. 89 of 1991) (Make an X in the appropriate space below)

Yes ☐ / No ☐ Registration no.:

Signature of person authorised to sign the tender:

Date:

FORM F: DECLARATION OF INTEREST (SBD 4)

1. Any legal person, including persons employed by the state¹, or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid (includes a price quotation, advertised competitive bid, limited bid or proposal). In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the bidder or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority where-
 - the bidder is employed by the state; and/or
 - the legal person on whose behalf the bidding document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the bid(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the bid.
2. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.
 - 2.1 Full Name of bidder or his or her representative:
 - 2.2 Identity Number:
 - 2.3 Position occupied in the Company (director, trustee, shareholder²):
 - 2.4 Company Registration Number:
 - 2.5 Tax Reference Number:
 - 2.6 VAT Registration Number:
 - 2.6.1 The names of all directors / trustees / shareholders / members, their individual identity numbers, tax reference numbers and, if applicable, employee / persal numbers must be indicated in paragraph 3 below.
 - 2.7 Are you or any person connected with the bidder
Presently employed by the state? Yes ☐ / No ☐
 - 2.7.1 If so, furnish the following particulars:

Name of person / director / trustee / shareholder/ member:

Name of state institution at which you or the person connected to the bidder is employed:

¹“State” means –

- (a) any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);
- (b) any municipality or municipal entity;
- (c) provincial legislature;
- (d) national Assembly or the national Council of provinces; or
- (e) Parliament.

²“Shareholder” means a person who owns shares in the company and is actively involved in the management of the enterprise or business and exercises control over the enterprise.

.....
Position occupied in the state institution:

Any other
particulars:

.....
.....
.....

2.7.2 If you are presently employed by the state, did you obtain the appropriate authority to undertake remunerative work outside employment in the public sector? Yes ☐ / No ☐

2.7.2.1 If yes, did you attached proof of such authority to the bid document? Yes ☐ / No ☐

(Note: Failure to submit proof of such authority, where applicable, may result in the disqualification of the bid.

2.7.2.2 If no, furnish reasons for non-submission of such proof:

.....
.....
.....

2.8 Did you or your spouse, or any of the company's directors / trustees / shareholders / members or their spouses conduct business with the state in the previous twelve months? Yes ☐ / No ☐

2.8.1 If so, furnish particulars:

.....
.....
.....

2.9 Do you, or any person connected with the bidder, have any relationship (family, friend, other) with a person employed by the state and who may be involved with the evaluation and or adjudication of this bid? Yes ☐ / No ☐

2.9.1 If so, furnish particulars:

.....
.....
.....

2.10 Are you, or any person connected with the bidder, aware of any relationship (family, friend, other) between any other bidder and any person employed by the state who may be involved with the evaluation and or adjudication of this bid? Yes ☐ / No ☐

2.10.1 If so, furnish particulars:

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.....
.....
.....

2.11 Do you or any of the directors / trustees / shareholders / members of the company have any interest in any other related companies whether or not they are bidding for this contract? Yes ☐ / No ☐

2.11.1 If so, furnish particulars:

.....
.....
.....

3. Full details of directors / trustees / members / shareholders.

Full Name	Identity Number	Personal Tax Reference Number	State Employee Number / Persal Number

4. Declaration

I, the undersigned (Name

· certify that the information furnished in paragraphs 2 and 3 above is correct.

· I accept that the state may reject the bid or act against me in terms of paragraph 23 of the general conditions of contract should this declaration prove to be false.

.....
Signature

.....
Date

.....
Name of Bidder

.....
Position of Bidder

FORM G: DECLARATION OF TENDERER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES (SBD 8)

1. This Standard Bidding Document must form part of all tenders invited.
2. It serves as a declaration to be used by institutions in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
3. The tender of any tenderer will be rejected if that tenderer, or any of its directors have:
 - a. abused the institution's supply chain management system;
 - b. committed fraud or any other improper conduct in relation to such system; or
 - c. failed to perform on any previous contract.
4. In order to give effect to the above, the following questionnaire must be completed and submitted with the tender:

Item	Question	Yes	No
4.1	Is the bidder any of its directors listed on the National Treasury's database as a company or persons prohibited from doing business with the public sector? (Companies for persons who are listed on this database were informed in writing of this restriction by the National Treasury after the <i>audi alteram partem</i> rule was applied).	Yes ☐	No ☐
4.1.1	If so, furnish particulars:		
4.2	Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? (To access this Register enter the National Treasury's website, www.treasury.gov.za , click on the icon "Register for Tender Defaulters" or submit your written request for a hard copy of the Register to facsimile number (012)3265445	Yes ☐	No ☐
4.2.1	If so, furnish particulars:		
4.3	Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes ☐	No ☐

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Item	Question	Yes	No
4.3.1	If so, furnish particulars:		
4.4	Was any contract between the bidder and the Department entity or any other organ of state terminated during the past five years on account of failure to perform on or to comply with the contract?	Yes ☐	No ☐
4.4.1	If so, furnish particulars:		
4.5	Does the bidder or any of its directors owe any Municipal rates and taxes or Municipal charges to the Municipality / Municipal entity, or to any other Municipality / Municipal entity, that is in arrears for more than three months?	Yes ☐	No ☐
4.5.1	If so, furnish particulars:		

CERTIFICATION

I, the undersigned (full name)
 certify that the information furnished on this declaration form to be true and correct.

I accept that, in addition to cancellation of a contract, action may be taken against me should this declaration prove to be false.

.....
 Signature

.....
 Date

.....
 Name of Bidder

.....
 Position of Bidder

FORM H: CERTIFICATE OF INDEPENDENT BID DETERMINATION (SBD 9)

1. This Standard Bidding Document (SBD) must form part of all bids¹ invited.
2. Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
3. Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:
 - a. disregard the bid of any bidder if that bidder, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such system.
 - b. cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.
4. This SBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
5. In order to give effect to the above, the attached Certificate of Bid Determination (SBD 9) must be completed and submitted with the bid:

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

.....
(Bid Number and Description)

in response to the invitation for the bid made by:

.....
(Name of Institution)

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

I certify, on behalf of that:
(Name of Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation;
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder.
6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation)
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit, a bid;
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
 - (f) bidding with the intention not to win the bid.

³ 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.

8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
10. 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.

.....
Signature

.....
Date

.....
Name of Bidder

.....
Position of Signatory

FORM I: SCHEDULE OF PLANT AND EQUIPMENT

The following is a list of major items of relevant equipment that are required for the contract. The tenderer should then indicate the quantities of the major plant they will require and furthermore include the use of this equipment in the Method Statement

Proof of ownership to submitted with the bid if owned. However, if equipment is to be leased then the lease company should state on their letterhead that the equipment will be available to the tenderer for the duration of the contract, citing the contract number on such communication which is to be submitted with the bid.

Tenderers to list any other equipment they deemed necessary and comply with the conditions stated above with regards to ownership or lease.

Quantity	Owned (O) or Leased (L)	Description
		Tower Crane
		Mobile Crane
		Scaffolding
		Poker Vibrator
		Compressor
		Jack Hammer
		Drop-side Truck
		TLB
		Telehandler

Attach additional pages if more space is required.

Signature of person authorised to sign the tender:

Date:

FORM J: SCHEDULE OF WORK CARRIED OUT BY THE TENDERER

The tenderer shall list 5 No relevant General Building Works Projects in the spaces provided below completed in the last five years.

THE BIDDER MUST ATTACH A PRACTICAL COMPLETION CERTIFICATE AND SIGNED FINAL ACCOUNT STATEMENT OF COMPLETION. THE CONTRACTS LISTED BELOW WILL BE THE ONES USED IN SCORING FOR TECHNICAL EVALUATION AS DETAILED ON PAGE 8.

THE CONTACT PERSON PROVIDED BELOW MUST BE THE SAME CONTACT PERSON REFERENCED IN FORM U

Employer (Company Name, Tel No)	Project Name and Employer Number	Project Manager Principal Agent (Name, Tel No& Email)	Nature of Work Example school, factory, multi-story building etc	Final Account Amount	Date of Practical Completion

Signature of person authorised to sign the tender:

Date:.....

**FORM K: CERTIFICATE OF TENDERER'S COMPULSORY SITE CLARIFICATION
MEETING ATTENDANCE**

This is to certify that I,.....ID No.....

Representative of (Tenderer's Name as it will appear on the Form of
Offer).....

Of (address)

.....
Attended the meeting and subsequently visited the site of the works in the company of the Employer and the
Principal Agent on theday of.....201.....

Signature (Tenderer's Representative)

DETAILS OF TENDERER'S CONTACT PERSON TO BE USED FOR COMMUNICATION OF THIS TENDER

Name of contact person:

Title of contact person:.....

Email of contact person (IN CAPITAL LETTERS):.....

.....
Name:Signature (Principal Agent)

Name:.....Signature (Employer's Project Manager)

FORM L: KEY-PERSONNEL/ SUPERVISORY AND MANAGEMENT STAFF

The Tenderer shall, submit the names of all management and supervisory staff that will be employed to supervise Contract. **Please attach CV's and certified copy of qualification of the proposed key personnel.** The Tenderer shall also include an organogram of the project team and the company structure.

1. Position	Contracts Manager
Name ((attach an ID copy certified in the last 3 months before date of tender submission)	
Indicate academic and professional qualifications(attach a copy of certificate certified in the last 3 months before date of tender submission)	
State NQF Level (Minimum of NQF level 6)	
Attach Detailed CV (signed by the named party and dated not more than 3 months from date of submission)	
Indicate Years of Experience as a Contracts Manager	
List of relevant Building Works projects worked on as a Contracts Manager in the last five years – stating the Final Account Amount and Date of Practical Completion	
Signed and dated by the named resource:	

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2. Position	Construction Manager Site Agent
Name (attach an ID copy certified in the last 3 months before date of tender submission)	
Indicate academic and professional qualifications (attach a copy of certificate certified in the last 3 months before date of tender submission)	
State NQF Level (Minimum of NQF level 6)	
Attach Detailed CV (signed by the named party and dated not more than 3 months from date of submission)	
Indicate Years of Experience as a Construction Manager Site Agent	
List of relevant Building Works projects worked on as a Construction Manager Site Agent in the last five years – stating the Final Account Amount and Date of Practical Completion	
Signed and dated by the named resource:	

Part T2: Returnable Documents
Section T2.2: Returnable Documents

3. Position	OHS Manager
Name ((attach an ID copy certified in the last 3 months before date of tender submission)	
Indicate academic and professional qualifications(attach a copy of certificate certified in the last 3 months before date of tender submission)	
State NQF Level (Minimum of NQF level 6)	
Attach Detailed CV (signed by the named party and dated not more than 3 months from date of submission)	
Indicate Years of Experience as a OHS Manager	
List of relevant Building Works projects worked on as an OHS Manager in the last five years – stating the Final Account Amount and Date of Practical Completion	
Signed and dated by the named Resource:	

Part T2: Returnable Documents
Section T2.2: Returnable Documents

4. Position	Quantity Surveyor
Name ((attach an ID copy certified in the last 3 months before date of tender submission)	
Indicate academic and professional qualifications(attach a copy of certificate certified in the last 3 months before date of tender submission)	
State NQF Level (Minimum of NQF level 6)	
Attach Detailed CV (signed by the named party and dated not more than 3 months from date of submission)	
Indicate Years of Experience as a Quantity Surveyor	
List of relevant Building Works projects worked on as a Quantity Surveyor in the last five years – stating the Final Account Amount and Date of Practical Completion	
Signed and dated by the named Resource:	

Part T2: Returnable Documents
Section T2.2: Returnable Documents

5. Position	General Foreman
Name ((attach an ID copy certified in the last 3 months before date of tender submission)	
Indicate academic and professional qualifications(attach a copy of certificate certified in the last 3 months before date of tender submission)	
State NQF Level (Minimum of NQF level 6)	
Attach Detailed CV (signed by the named party and dated not more than 3 months from date of submission)	
Indicate Years of Experience as a General Foreman	
List of relevant Building Works projects worked on as a General Foreman in the last five years – stating the Final Account Amount and Date of Practical Completion	
Signed and dated by the named Resource:	

Part T2: Returnable Documents
Section T2.2: Returnable Documents

6. Position	Building Services Manager
Name ((attach an ID copy certified in the last 3 months before date of tender submission)	
Indicate academic and professional qualifications(attach a copy of certificate certified in the last 3 months before date of tender submission)	
State NQF Level (Minimum of NQF level 6)	
Attach Detailed CV (signed by the named party and dated not more than 3 months from date of submission)	
Indicate Years of Experience as a Building Services Manager	
List of relevant Building Works projects worked on as a Building Services in the last five years – stating the Final Account Amount and Date of Practical Completion	
Signed and dated by the named Resource:	

FORM N: COMPLIANCE WITH OHSA (ACT 85 OF 1993)

Tenderers are required to satisfy the Employer and the Engineer as to their ability and available resources to comply with the above by answering the following questions and providing the relevant information required below.

1. Is the Contractor familiar with the OHSA (ACT 85 of 1993) and its Regulations? Yes ☐ / No ☐
2. Who will prepare the Contractor's Health and Safety Plan? (Section T2.2.18 – Form R) (Provide a copy of the person/s curriculum vitae/s or company profile). Yes ☐ / No ☐

3. Does the Contractor have a health and safety policy? (if yes, provide a copy). How is this policy communicated to all employees? Yes ☐ / No ☐

4. Does the Contractor keep records of safety aspects of each construction site? If yes, what records are kept? Yes ☐ / No ☐

5. Does the Contractor conduct monthly safety meetings? If yes, who is the chairperson of the meeting, and who attend these meetings? Yes ☐ / No ☐

6. Does the Contractor have a safety officer in his employment, responsible for the overall safety of his company? If yes, please explain his duties and provide a copy of his CV. Yes ☐ / No ☐

7. Does the Contractor have trained first aid employees? If yes, indicate, who. Yes ☐ / No ☐

8. Does the Contractor have a safety induction training programme in place? (If yes, provide a copy) Yes ☐ / No ☐

Signature of person authorised to sign the tender:

Date:

FORM O: CSD SUPPLIER NUMBER AND TAX COMPLIANCE PIN

Bidders registered on the **National Treasury Central Supplier Database (CSD)** are required to submit their unique **Personal Identification Number (PIN)** issued by SARS in the space provided below as stipulated in Clause F2.28. Bidders may also submit a **printed TCS** together with the bid.

In bids where Consortia / Joint Ventures / Sub-contractors are involved, each party **must** submit a separate proof of **TCS / PIN / CSD** number.

Where no TCS is available but the bidder is registered on the Central Supplier Database (CSD), a **CSD number** must be provided

Alternatively the tenderer must submit a valid tax clearance certificate together with the Bid, including Valid Tax Clearance Certificates for the Joint Venture partner/s and Subcontractors proposed.

The certificates may be stapled into the tender document without taking the tender document apart or may be attached in a separate file to the tender document.

If the documents are not included in the document, the tender will be regarded as being NON-RESPONSIVE.

Tenderer/Leading JV Partner

Name of Company:

CSD Supplier Number: (Master
Registration Number)

Tax Compliance PIN number:

JV Partner 1

Name of Company:

CSD Supplier Number: (Master
Registration Number)

Tax Compliance PIN number:

JV Partner 2

Name of Company:

CSD Supplier Number: (Master
Registration Number)

Tax Compliance PIN number:

***NB: All contractors, even tendering in JV, must be registered with National Treasury Central Supplier Database**

FORM P: PRELIMINARY PROGRAMME

The Tenderer shall attach a preliminary programme compiled in Microsoft Project or similar scheduling software reflecting the proposed sequence of execution of the various activities comprising the work for this Contract. The programme shall be in accordance with the information supplied in the Contract, requirements of the Project Specifications and with all other aspects of the Tender.

The programme will show a Task List for the full Scope of Works, Start and Finish Date for each task, reasonable Duration for each task and Linkage between tasks and sequencing thereof.

The programme will be to a minimum of Level 3, printed in colour in Landscape Orientation on at least 3 No A3 pages and will show the "Predecessors" column.

The project start date is the Date of Site Possession, and will only be determined after the appointment of the successful tenderer, (projected April 2018) and then the projected Date of Practical Projected Completion will be 15 to 18 Months; all as specified in the Contract Data.

This programme will be used to calculate the Technical Evaluation score.

FORM Q: ESTIMATED MONTHLY EXPENDITURE

The tenderer shall, in the table below, state the estimated cash flow on the contract based on his preliminary programme, his tendered unit rates and his submission of payment certificates to the Employer. Amounts for Contract Price Adjustment shall not be included.

[illegible]

Signature of person authorised to sign the tender:

Date:

FORM R: ALTERATIONS BY TENDERER

Should the Tenderer desire to have any departures from, or modifications to the JBCC, Specifications, Bill of Quantities or Drawings considered, or to qualify his tender in any way, he shall set out his proposals clearly hereunder or alternatively state them in a covering letter attached to his tender and referred to hereunder.

PAGE	DESCRIPTION

Signature of person authorised to sign the tender:

Date:

FORM U: TENDERERS PERFORMANCE EVALUATION FORM
--

THE PROJECTS FOR WHICH REFERENCE IFS SOUGHT MUST BE THE SAME ONES AS DETAILED ON FORM J

PROJECT REFERENCE

FORM (1 of 5)

The reference to please provide a score (0=poor, 5=Satisfactory, 7 = good, 10 = excellent, intermediate numbers may also be scored) and comment on the Contractor's performance on the listed project.

PART A: TO BE COMPLETED BY THE TENDERING ENTITY

Company Name of Respondent			
Name of Completed Similar Project			
Name of Project Client			
Location of project (town, district municipality, province, country)			
Total Project Value		Project Start Date:	
Value of Work Under Your Appointment		Project Finish Date:	
Brief Description Of Work Done On This Project By Your Firm			
Disciplines Undertaken By Your Company			
Details of Client For Reference Purposes	Name:		
	Company Name:		
	Contact Details:		

NOTE: FORM TO BE SIGNED BY PRINCIPAL AGENT OR THE CLIENT'S PROJECT MANAGER RESPONSIBLE FOR THE PROJECT.

PART B: TO BE COMPLETED BY THE REFERENCE

FORM (1 of 5)

Please verify that information provided by the respondent in Part A above is correct. Comment alongside if necessary.	YES / NO	Comment
Please score and comment on the attributes listed below:	Score out of 10	
Overall professional skills relevant to discipline		
Quality and completeness of documentation / drawings issued		
Compliance with programme for issuing of information		
Application of resources to project		
Site Inspections / administration		
Contractual acumen		
Willingness to work as a team with other contractors, consultants and client		
Provision of, and accuracy of As-Built and contract records		
Overall rating of contractor's performance		
Total core (sum of all scores)		

Referee Name:	Referee Signature:
Designation:.....	Company / Client Stamp:
Date:	
Tel:	

NOTE: FORM TO BE SIGNED BY PRINCIPAL AGENT OR THE CLIENT'S PROJECT MANAGER RESPONSIBLE FOR THE PROJECT.

PROJECT REFERENCE

FORM (2 of 5)

The reference to please provide a score (0=poor, 5=Satisfactory, 7 = good, 10 = excellent, intermediate numbers may also be scored) and comment on the Contractor's performance on the listed project.

PART A: TO BE COMPLETED BY THE TENDERING ENTITY

Company name of respondent			
Name of Completed similar project			
Name of Project Client			
Location of project (town, district municipality, province, country)			
Total Project Value		Project start date:	
Value of work under your appointment		Project finish date:	
Brief description of work done on this project by your firm			
Disciplines undertaken by your company			
Details of client for reference purposes	Name:		
	Company Name:		
	Contact Details:		

NOTE: FORM TO BE SIGNED BY PRINCIPAL AGENT OR THE CLIENT'S PROJECT MANAGER RESPONSIBLE FOR THE PROJECT.

PART B: TO BE COMPLETED BY THE REFERENCE

FORM (2 of 5)

Please verify that information provided by the respondent in Part A above is correct. Comment alongside if necessary.	YES / NO	Comment
Please score and comment on the attributes listed below:	Score out of 10	
Overall professional skills relevant to discipline		
Quality and completeness of documentation / drawings issued		
Compliance with programme for issuing of information		
Application of resources to project		
Site Inspections / administration		
Contractual acumen		
Willingness to work as a team with other contractors, consultants and client		
Provision of, and accuracy of As-Built and contract records		
Overall rating of contractor's performance		
Total core (sum of all scores)		

Referee Name:	Referee Signature:
Designation:.....	Company / Client Stamp:
Date:	
Tel:	

NOTE: FORM TO BE SIGNED BY PRINCIPAL AGENT OR THE CLIENT'S PROJECT MANAGER RESPONSIBLE FOR THE PROJECT.

PROJECT REFERENCE

FORM (3 of 5)

The reference to please provide a score (0=poor, 5=Satisfactory, 7 = good, 10 = excellent, intermediate numbers may also be scored) and comment on the Contractor's performance on the listed project.

PART A: TO BE COMPLETED BY THE TENDERING ENTITY

Company name of respondent			
Name of Completed similar project			
Name of Project Client			
Location of project (town, district municipality, province, country)			
Total Project Value		Project start date:	
Value of work under your appointment		Project finish date:	
Brief description of work done on this project by your firm			
Disciplines undertaken by your company			
Details of client for reference purposes	Name:		
	Company Name:		
	Contact Details:		

NOTE: FORM TO BE SIGNED BY PRINCIPAL AGENT OR THE CLIENT'S PROJECT MANAGER RESPONSIBLE FOR THE PROJECT.

PART B: TO BE COMPLETED BY THE REFERENCE

FORM (3 of 5)

Please verify that information provided by the respondent in Part A above is correct. Comment alongside if necessary.	YES / NO	Comment
Please score and comment on the attributes listed below:	Score out of 10	
Overall professional skills relevant to discipline		
Quality and completeness of documentation / drawings issued		
Compliance with programme for issuing of information		
Application of resources to project		
Site Inspections / administration		
Contractual acumen		
Willingness to work as a team with other contractors, consultants and client		
Provision of, and accuracy of As-Built and contract records		
Overall rating of contractor's performance		
Total core (sum of all scores)		

Referee Name:	Referee Signature:
Designation:.....	Company / Client Stamp:
Date:	
Tel:	

NOTE: FORM TO BE SIGNED BY PRINCIPAL AGENT OR THE CLIENT'S PROJECT MANAGER RESPONSIBLE FOR THE PROJECT.

PROJECT REFERENCE

FORM (4 of 5)

The reference to please provide a score (0=poor, 5=Satisfactory, 7 = good, 10 = excellent, intermediate numbers may also be scored) and comment on the Contractor's performance on the listed project.

PART A: TO BE COMPLETED BY THE TENDERING ENTITY

Company name of respondent			
Name of Completed similar project			
Name of Project Client			
Location of project (town, district municipality, province, country)			
Total Project Value		Project start date:	
Value of work under your appointment		Project finish date:	
Brief description of work done on this project by your firm			
Disciplines undertaken by your company			
Details of client for reference purposes	Name:		
	Company Name:		
	Contact Details:		

NOTE: FORM TO BE SIGNED BY PRINCIPAL AGENT OR THE CLIENT'S PROJECT MANAGER RESPONSIBLE FOR THE PROJECT.

PART B: TO BE COMPLETED BY THE REFERENCE

FORM (4 of 5)

Please verify that information provided by the respondent in Part A above is correct. Comment alongside if necessary.	YES / NO	Comment
Please score and comment on the attributes listed below:	Score out of 10	
Overall professional skills relevant to discipline		
Quality and completeness of documentation / drawings issued		
Compliance with programme for issuing of information		
Application of resources to project		
Site Inspections / administration		
Contractual acumen		
Willingness to work as a team with other contractors, consultants and client		
Provision of, and accuracy of As-Built and contract records		
Overall rating of contractor's performance		
Total core (sum of all scores)		

Referee Name:	Referee Signature:
Designation:.....	Company / Client Stamp:
Date:	
Tel:	

NOTE: FORM TO BE SIGNED BY PRINCIPAL AGENT OR THE CLIENT'S PROJECT MANAGER RESPONSIBLE FOR THE PROJECT.

PROJECT REFERENCE

FORM (5 of 5)

The reference to please provide a score (0=poor, 5=Satisfactory, 7 = good, 10 = excellent, intermediate numbers may also be scored) and comment on the Contractor's performance on the listed project.

PART A: TO BE COMPLETED BY THE TENDERING ENTITY

Company name of respondent			
Name of Completed similar project			
Name of Project Client			
Location of project (town, district municipality, province, country)			
Total Project Value		Project start date:	
Value of work under your appointment		Project finish date:	
Brief description of work done on this project by your firm			
Disciplines undertaken by your company			
Details of client for reference purposes	Name:		
	Company Name:		
	Contact Details:		

NOTE: FORM TO BE SIGNED BY PRINCIPAL AGENT OR THE CLIENT'S PROJECT MANAGER RESPONSIBLE FOR THE PROJECT.

PART B: TO BE COMPLETED BY THE REFERENCE

FORM (5 of 5)

Please verify that information provided by the respondent in Part A above is correct. Comment alongside if necessary.	YES / NO	Comment
Please score and comment on the attributes listed below:	Score out of 10	
Overall professional skills relevant to discipline		
Quality and completeness of documentation / drawings issued		
Compliance with programme for issuing of information		
Application of resources to project		
Site Inspections / administration		
Contractual acumen		
Willingness to work as a team with other contractors, consultants and client		
Provision of, and accuracy of As-Built and contract records		
Overall rating of contractor's performance		
Total core (sum of all scores)		

Referee Name:	Referee Signature:
Designation:.....	Company / Client Stamp:
Date:	
Tel:	

NOTE: FORM TO BE SIGNED BY PRINCIPAL AGENT OR THE CLIENT'S PROJECT MANAGER RESPONSIBLE FOR THE PROJECT.

FORM V: COMPULSARY ENTERPRISE QUESTIONNAIRE

Annexure X
(normative)
Compulsory Enterprise questionnaire

The following particulars must be furnished. In the case of a joint venture, separate enterprise questionnaires in respect of each partner must be completed and submitted.

Section 1: Name of enterprise:

Section 2: VAT registration number, if any:

Section 3: CIDB registration number, if any:

Section 4: Particulars of sole proprietors and partners in partnerships

Name*	Identity number*	Personal income tax number*

* Complete only if sole proprietor or partnership and attach separate page if more than 3 partners

Section 5: Particulars of companies and close corporations

Company registration number

Close corporation number

Tax reference number

Section 6: The attached SBD4 must be completed for each tender and be attached as a tender requirement.

Section 7: The attached SBD 6 must be completed for each tender and be attached as a requirement.

Section 8: The attached SBD8 must be completed for each tender and be attached as a requirement.

Section 9: The attached SBD9 must be completed for each tender and be attached as a requirement.

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the enterprise:

- i) authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- ii) confirms that the neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;

Signed

Date

Enterprise Name

.....

.....

.....

Name

Position

LOCAL CONTENT

FORM W: DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS (SBD 6.2)
--

**DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR
DESIGNATED SECTORS**

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

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

1. General Conditions

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

$$LC = [1 - x / y] * 100$$

Where

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

Part T2: Returnable Documents
Section T2.2: Returnable Documents

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) at 12h00 on the date of advertisement of the bid as indicated in paragraph 4.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on http://www.thedti.gov.za/industrial_development/ip.jsp at no cost.

- 1.6. A bid may be disqualified if this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation;
- 2. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:**

SECTOR ITEMIZE

Description of services, works or goods	Stipulated minimum threshold
Joining/Connecting Components (gussets, cleats, stiffeners, splices, cranks, kinks, doglegs, spacers, tabs, brackets)	100%
Frames (doors and windows)	100%
Fasteners (bolts, nuts, rivets and nails)	100%
Wire Products (All fencing products-, mesh wire, wire strands,)	100%
Gutters, downpipes & launders (fabricated materials made from sheeting associated with roof drainage systems)	100%
Reinforced bars	100%
Low voltage power cables	90%
Low cost reticulation cables	90%
Ball Valves (spherical valves, rotary valves)	70%
Safety or Relief valves (pressure valve or vacuum valve)	70%
Taps, Cocks	70%

3. Does any portion of the goods or services offered have any imported content?
(Tick applicable box)

YES	☐	NO	☐
-----	--------------------------	----	--------------------------

- 3..1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s)

Part T2: Returnable Documents
Section T2.2: Returnable Documents

published by SARB for the specific currency at 12:00am on the date of advertisement of the bid.

The relevant rates of exchange information is accessible on www.reservebank.co.za

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

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

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

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

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

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

IN RESPECT OF BID NO.

ISSUED BY: (Procurement Authority / Name of Institution):

.....

NB

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

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

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that:
 - (i) the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and
- (c) The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:

Bid price, excluding VAT (y)	R
------------------------------	---

Part T2: Returnable Documents
Section T2.2: Returnable Documents

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

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above. The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E.

(d) I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.

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

SIGNATURE: _____ **DATE:** _____

WITNESS No. 1 _____ **DATE:** _____

WITNESS No. 2 _____ **DATE:** _____

Part T2: Returnable Documents
Section T2.2: Returnable Documents

Example

SATS 1206.2011

Annex C **CASE STUDY ONE**

Local Content Declaration - Summary Schedule

(C1) Tender No. GP 100000

(C2) Tender description Office Desks and Chairs

(C3) Designated product(s) Office Furniture

(C4) Tender authority Gauteng Purchasing Department

(C5) Tendering Entity name Rainbow Office Furniture

(C6) Tender Exchange Rate: USD R 3.00 TZS R 12.00 GBP R 14.00

(C7) Specified local content % 80%

(C8) VAT to be excluded from all calculations

		Calculation of local content						Tender summary			
Tender Item no.	List of items	Tender price - each (incl VAT)	Exempted Imported value per unit	Tender value net of exempted Imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted Imported content	Total Imported content
				(C10-C11)	(Annexure D value-Import)	(C12-C13)	(C14/C12)		(C16-C18)	Annex D D18	Annex D
(C9)	(C4)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
GP 10001.1	Malawian Office Desks with Drawers	R 12 000	R 0	R 12 000	R 0	R 12 000	100%	100	R 1 200 000	R 0	R 1 200 000
GP 10001.2	Office desk with drawers on timber top with steel frame	R 15 000.00	R 1 800.00	R 13 200.00	R 1 232.00	R 12 968.00	91%	50	R 750 000	R 61 600	R 688 400
GP 10001.3	Side up-curved chair - Sligh base with arms	R 10 450.00	R 2 170.00	R 8 280.00	R 2 817.00	R 5 463.00	66%	100	R 1 045 000	R 217 000	R 828 000
GP 10001.4	Highback upholstered chair with arms on 5 star base	R 11 200.00	R 2 200.00	R 9 000.00	R 2 557.00	R 6 443.00	70%	50	R 560 000	R 127 850	R 432 150
(C20) Total tender value R 2 608 000 (C21) Total Exempt Imported content R 590 900 (C22) Total Tender value net of exempt Imported content (C19-C21) R 2 017 100 (C23) Total Imported content R 581 700 (C24) Total local content (C19-C23) R 2 595 400 (C25) Average local content % of tender (C24/C22) 83.64%											

Signature of tenderer from Annex B _____

DATE _____

EXAMPLE

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Section T2.2: Returnable Documents

STEEL VALUE ADDED PRODUCTS- Fabricated Structural Steel (100%)Refer to item in the BOQ: **STEEL VALUE ADDED PRODUCTS-** Joining/Connecting Components (100%)

SATS 1286.2011

Annex C

Local Content Declaration - Summary Schedule

(C1) Tender No.
(C2) Tender description:
(C3) Designated product(s)
(C4) Tender Authority:
(C5) Tendering Entity name:
(C6) Tender Exchange Rate:
(C7) Specified local content %

Note: VAT to be excluded from all calculations

Pula EU GBP

Calculation of local content								Tender summary			
Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)

(C20) Total tender value R 0

(C21) Total Exempt imported content R 0

(C22) Total Tender value net of exempt imported content R 0

(C23) Total Imported content R 0

(C24) Total local content R 0

(C25) Average local content % of tender

Signature of tenderer from Annex B

Date:

Part T2: Returnable Documents
Section T2.2: Returnable Documents

Refer to item in the BOQ:

STEEL VALUE ADDED PRODUCTS— Frames (100%) Refer to item in the BOQ:

SATS 1286.2011

Annex C

Local Content Declaration - Summary Schedule

(C1) Tender No.

(C2) Tender description:

(C3) Designated product(s)

(C4) Tender Authority:

(C5) Tendering Entity name:

(C6) Tender Exchange Rate: Pula EU GBP

(C7) Specified local content %

Note: VAT to be excluded from all calculations

Calculation of local content							
Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)

Tender summary			
Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)

Signature of tenderer from Annex B

Date: _____

(C20) Total tender value R 0

(C21) Total Exempt imported content R 0

(C22) Total Tender value net of exempt imported content R 0

(C23) Total Imported content R 0

(C24) Total local content R 0

(C25) Average local content % of tender

STEEL VALUE ADDED PRODUCTS— Fasteners (100%)

Refer to item in the BOQ:

SATS 1286.2011

Annex C

Local Content Declaration - Summary Schedule

(C1) Tender No.

(C2) Tender description:

(C3) Designated product(s)

(C4) Tender Authority:

(C5) Tendering Entity name:

(C6) Tender Exchange Rate: Pula EU GBP

(C7) Specified local content %

Note: VAT to be excluded from all calculations

Calculation of local content							
Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)

Tender summary			
Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)

Signature of tenderer from Annex B

Date: _____

(C20) Total tender value R 0

(C21) Total Exempt imported content R 0

(C22) Total Tender value net of exempt imported content R 0

(C23) Total Imported content R 0

(C24) Total local content R 0

(C25) Average local content % of tender

Part T2: Returnable Documents
Section T2.2: Returnable Documents

STEEL VALUE ADDED PRODUCTS- Wire Products (100%)

Refer to item in the BOQ:

SATS 1286.2011

Annex C

Local Content Declaration - Summary Schedule

(C1) Tender No.

(C2) Tender description:

(C3) Designated product(s)

(C4) Tender Authority:

(C5) Tendering Entity name:

(C6) Tender Exchange Rate: Pula EU GBP

(C7) Specified local content %

Note: VAT to be excluded from all calculations

Calculation of local content							
Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)

Tender summary			
Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)

Signature of tenderer from Annex B _____

Date: _____

(C20) Total tender value R 0

(C21) Total Exempt imported content R 0

(C22) Total Tender value net of exempt imported content R 0

(C23) Total Imported content R 0

(C24) Total local content R 0

(C25) Average local content % of tender

Part T2: Returnable Documents
Section T2.2: Returnable Documents

STEEL VALUE ADDED PRODUCTS- Gutters, downpipes & launders **(100%)**

Refer to item in the BOQ:

SATS 1286.2011

Annex C

Local Content Declaration - Summary Schedule

(C1) Tender No.

(C2) Tender description:

(C3) Designated product(s)

(C4) Tender Authority:

(C5) Tendering Entity name:

(C6) Tender Exchange Rate: Pula EU GBP

(C7) Specified local content %

Note: VAT to be excluded from all calculations

Calculation of local content							
Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)

Tender summary			
Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)

Signature of tenderer from Annex B

Date: _____

(C20) Total tender value R 0

(C21) Total Exempt imported content R 0

(C22) Total Tender value net of exempt imported content R 0

(C23) Total Imported content R 0

(C24) Total local content R 0

(C25) Average local content % of tender

Part T2: Returnable Documents
Section T2.2: Returnable Documents

POWER CABLES - Low Voltage (90%)

Refer to item in the BOQ:

SATS 1286.2011

Annex C

Local Content Declaration - Summary Schedule

(C1) Tender No.

(C2) Tender description:

(C3) Designated product(s)

(C4) Tender Authority:

(C5) Tendering Entity name:

(C6) Tender Exchange Rate:

(C7) Specified local content %

Pula
EU
GBP

Calculation of local content							
Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)

Tender summary			
Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)

Signature of tenderer from Annex B

Date: _____

(C20) Total tender value R 0

(C21) Total Exempt imported content R 0

(C22) Total Tender value net of exempt imported content R 0

(C23) Total Imported content R 0

(C24) Total local content R 0

(C25) Average local content % of tender

Part T2: Returnable Documents
Section T2.2: Returnable Documents

POWER CABLES - Low Cost Reticulation (90%)

Refer to item in the BOQ:

SATS 1286.2011

Annex C

Local Content Declaration - Summary Schedule

(C1) Tender No.

(C2) Tender description:

(C3) Designated product(s)

(C4) Tender Authority:

(C5) Tendering Entity name:

(C6) Tender Exchange Rate:

(C7) Specified local content %

Pula
EU
GBP

Note: VAT to be excluded from all calculations

Calculation of local content							
Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)

Tender summary			
Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)

Signature of tenderer from Annex B

Date: _____

(C20) Total tender value R 0

(C21) Total Exempt imported content R 0

(C22) Total Tender value net of exempt imported content R 0

(C23) Total Imported content R 0

(C24) Total local content R 0

(C25) Average local content % of tender

Part T2: Returnable Documents
Section T2.2: Returnable Documents

VALVES PRODUCTS AND ACTUATORS - Ball valves (70%)

Refer to item in the BOQ:

SATS 1286.2011

Annex C

Local Content Declaration - Summary Schedule

(C1) Tender No.

(C2) Tender description:

(C3) Designated product(s)

(C4) Tender Authority:

(C5) Tendering Entity name:

(C6) Tender Exchange Rate:

(C7) Specified local content %

Pula
EU
GBP

Calculation of local content							
Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)

Tender summary			
Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)

Signature of tenderer from Annex B

Date: _____

(C20) Total tender value R 0

(C21) Total Exempt imported content R 0

(C22) Total Tender value net of exempt imported content R 0

(C23) Total Imported content R 0

(C24) Total local content R 0

(C25) Average local content % of tender

VALVES PRODUCTS AND ACTUATORS - Safety or relief valves (70%)

Refer to item in the BOQ:

SATS 1286.2011

Annex C

Local Content Declaration - Summary Schedule

(C1) Tender No.

(C2) Tender description:

(C3) Designated product(s)

(C4) Tender Authority:

(C5) Tendering Entity name:

(C6) Tender Exchange Rate: Pula EU GBP

(C7) Specified local content %

Note: VAT to be excluded from all calculations

Calculation of local content							
Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)

Tender summary			
Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)

Signature of tenderer from Annex B

Date: _____

(C20) Total tender value R 0

(C21) Total Exempt imported content R 0

(C22) Total Tender value net of exempt imported content R 0

(C23) Total Imported content R 0

(C24) Total local content R 0

(C25) Average local content % of tender

Part T2: Returnable Documents
Section T2.2: Returnable Documents

VALVES PRODUCTS AND ACTUATORS - Taps, Cocks (70%)

Refer to item in the BOQ:

SATS 1286.2011

Annex C

Local Content Declaration - Summary Schedule

(C1) Tender No.

(C2) Tender description:

(C3) Designated product(s)

(C4) Tender Authority:

(C5) Tendering Entity name:

(C6) Tender Exchange Rate: Pula EU GBP

(C7) Specified local content %

Note: VAT to be excluded from all calculations

Calculation of local content							
Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)

Tender summary			
Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)

Signature of tenderer from Annex B

Date: _____

(C20) Total tender value R 0

(C21) Total Exempt imported content R 0

(C22) Total Tender value net of exempt imported content R 0

(C23) Total Imported content R 0

(C24) Total local content R 0

(C25) Average local content % of tender

Part T2: Returnable Documents
Section T2.2: Returnable Documents

STEEL VALUE ADDED PRODUCTS- Joining/Connecting Components (100%)

Refer to item in the BOQ:

Annex D										SATS 1286.2011	
Imported Content Declaration - Supporting Schedule to Annex C											
(D1)	Tender No.						Note: VAT to be excluded from all calculations				
(D2)	Tender description:										
(D3)	Designated Products:										
(D4)	Tender Authority:										
(D5)	Tendering Entity name:										
(D6)	Tender Exchange Rate:	Pula		EU	R 9.00	GBP	R 12.00				
A. Exempted imported content											
Calculation of imported content										Summary	
Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted imported value
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)
(D19) Total exempt imported value										R 0	
This total must correspond with Annex C - C 21											
B. Imported directly by the Tenderer											
Calculation of imported content										Summary	
Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Total imported value
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)
(D32) Total imported value by tenderer										R 0	
C. Imported by a 3rd party and supplied to the Tenderer											
Calculation of imported content										Summary	
Description of imported content	Unit of measure	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Quantity imported	Total imported value
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)
(D45) Total imported value by 3rd party										R 0	
D. Other foreign currency payments											
Calculation of foreign currency payments					Summary of payments						
Type of payment	Local supplier making the payment	Overseas beneficiary	Foreign currency value paid	Tender Rate of Exchange	Local value of payments						
(D46)	(D47)	(D48)	(D49)	(D50)	(D51)						
(D52) Total of foreign currency payments declared by tenderer and/or 3rd party											
Signature of tenderer from Annex B					(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above						
Date: _____					R 0						
					This total must correspond with Annex C - C 23						

Part T2: Returnable Documents
Section T2.2: Returnable Documents

STEEL VALUE ADDED PRODUCTS– Frames (100%)

Refer to item in the BOQ:

SATS 1286.2011

Annex D

Imported Content Declaration - Supporting Schedule to Annex C

(D1) Tender No. _____

(D2) Tender description: _____

(D3) Designated Products: _____

(D4) Tender Authority: _____

(D5) Tendering Entity name: _____

(D6) Tender Exchange Rate: _____

Note: VAT to be excluded from all calculations

EU R 9.00 GBP R 12.00

A. Exempted imported content

Calculation of imported content										Summary	
Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted imported value
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)
(D19) Total exempt imported value										R 0	

This total must correspond with Annex C - C 21

B. Imported directly by the Tenderer

Calculation of imported content										Summary	
Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Total imported value
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)
(D32) Total imported value by tenderer										R 0	

C. Imported by a 3rd party and supplied to the Tenderer

Calculation of imported content										Summary	
Description of imported content	Unit of measure	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Quantity imported	Total imported value
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)
(D45) Total imported value by 3rd party										R 0	

D. Other foreign currency payments

Calculation of foreign currency payments					Summary of payments	
Type of payment	Local supplier making the payment	Overseas beneficiary	Foreign currency value paid	Tender Rate of Exchange	Local value of payments	
(D46)	(D47)	(D48)	(D49)	(D50)	(D51)	
(D52) Total of foreign currency payments declared by tenderer and/or 3rd party					R 0	

(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above R 0

This total must correspond with Annex C - C 23

Signature of tenderer from Annex B _____

Date: _____

Part T2: Returnable Documents
Section T2.2: Returnable Documents

STEEL VALUE ADDED PRODUCTS- Roof and Cladding (100%)Refer to item in the BOQ:

SATS 1286.2011

Annex D

Imported Content Declaration - Supporting Schedule to Annex C

(D1) Tender No. _____

(D2) Tender description: _____

(D3) Designated Products: _____

(D4) Tender Authority: _____

(D5) Tendering Entity name: _____

(D6) Tender Exchange Rate: _____

Note: VAT to be excluded from all calculations

EUR R 9.00

GBP R 12.00

A. Exempted imported content

Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Calculation of imported content						Summary	
				Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted imported value
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)
(D19) Total exempt imported value										R 0	

This total must correspond with Annex C - C 21

B. Imported directly by the Tenderer

Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Calculation of imported content						Summary	
				Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Total imported value
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)
(D32) Total imported value by tenderer										R 0	

C. Imported by a 3rd party and supplied to the Tenderer

Description of imported content	Unit of measure	Local supplier	Overseas Supplier	Calculation of imported content						Summary	
				Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Quantity imported	Total imported value
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)
(D45) Total imported value by 3rd party										R 0	

D. Other foreign currency payments

Type of payment	Local supplier making the payment	Overseas beneficiary	Calculation of foreign currency payments		Summary of payments
			Foreign currency value paid	Tender Rate of Exchange	
(D46)	(D47)	(D48)	(D49)	(D50)	(D51)
(D52) Total of foreign currency payments declared by tenderer and/or 3rd party					

Signature of tenderer from Annex B _____

Date: _____

(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above R 0

This total must correspond with Annex C - C 23

Part T2: Returnable Documents
Section T2.2: Returnable Documents

STEEL VALUE ADDED PRODUCTS– Fasteners (100%)

Refer to item in the BOQ:

SATS 1286.2011

Annex D

Imported Content Declaration - Supporting Schedule to Annex C

(D1) Tender No. _____

(D2) Tender description: _____

(D3) Designated Products: _____

(D4) Tender Authority: _____

(D5) Tendering Entity name: _____

(D6) Tender Exchange Rate: _____ Pula _____

Note: VAT to be excluded from all calculations

EU R 9.00

GBP R 12.00

A. Exempted imported content

Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Calculation of imported content						Summary	
				Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted imported value
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)
(D19) Total exempt imported value										R 0	

This total must correspond with Annex C - C 21

B. Imported directly by the Tenderer

Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Calculation of imported content						Summary	
				Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Total imported value
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)
(D32) Total imported value by tenderer										R 0	

C. Imported by a 3rd party and supplied to the Tenderer

Description of imported content	Unit of measure	Local supplier	Overseas Supplier	Calculation of imported content						Summary	
				Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Quantity imported	Total imported value
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)
(D45) Total imported value by 3rd party										R 0	

D. Other foreign currency payments

Type of payment	Local supplier making the payment	Overseas beneficiary	Calculation of foreign currency payments		Summary of payments
			Foreign currency value paid	Tender Rate of Exchange	
(D46)	(D47)	(D48)	(D49)	(D50)	(D51)
(D52) Total of foreign currency payments declared by tenderer and/or 3rd party					

Signature of tenderer from Annex B _____

Date: _____

(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above

R 0

This total must correspond with Annex C - C 23

Part T2: Returnable Documents
Section T2.2: Returnable Documents

STEEL VALUE ADDED PRODUCTS- Wire Products (100%)

Refer to item in the BOQ

Annex D										SATS 1286.2011
Imported Content Declaration - Supporting Schedule to Annex C										
(D1)	Tender No.							Note: VAT to be excluded from all calculations		
(D2)	Tender description:									
(D3)	Designated Products:									
(D4)	Tender Authority:									
(D5)	Tendering Entity name:									
(D6)	Tender Exchange Rate:	Pula		EU	R 9.00	GBP	R 12.00			
A. Exempted imported content										
Calculation of imported content										
Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	
(D19) Total exempt imported value										R 0
This total must correspond with Annex C - C 21										
B. Imported directly by the Tenderer										
Calculation of imported content										
Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	
(D32) Total imported value by tenderer										R 0
C. Imported by a 3rd party and supplied to the Tenderer										
Calculation of imported content										
Description of imported content	Unit of measure	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	
(D45) Total imported value by 3rd party										R 0
D. Other foreign currency payments										
Calculation of foreign currency payments										
Type of payment	Local supplier making the payment	Overseas beneficiary	Foreign currency value paid	Tender Rate of Exchange						
(D46)	(D47)	(D48)	(D49)	(D50)						
(D52) Total of foreign currency payments declared by tenderer and/or 3rd party										
(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above					R 0					
Signature of tenderer from Annex B										
Date:										
This total must correspond with Annex C - C 23										

Part T2: Returnable Documents
Section T2.2: Returnable Documents

STEEL VALUE ADDED PRODUCTS- Gutters, downpipes & launders (100%)

Refer to item in the BOQ:

SATS 1286.2011

Annex D

Imported Content Declaration - Supporting Schedule to Annex C

(D1) Tender No. _____

(D2) Tender description: _____

(D3) Designated Products: _____

(D4) Tender Authority: _____

(D5) Tendering Entity name: _____

(D6) Tender Exchange Rate: _____ Pula _____

Note: VAT to be excluded from all calculations

EU R 9.00

GBP R 12.00

A. Exempted imported content

Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Calculation of imported content						Summary	
				Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted imported value
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)
(D19) Total exempt imported value										R 0	

This total must correspond with Annex C - C 21

B. Imported directly by the Tenderer

Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Calculation of imported content						Summary	
				Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Total imported value
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)
(D32) Total imported value by tenderer										R 0	

C. Imported by a 3rd party and supplied to the Tenderer

Description of imported content	Unit of measure	Local supplier	Overseas Supplier	Calculation of imported content						Summary	
				Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Quantity imported	Total imported value
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)
(D45) Total imported value by 3rd party										R 0	

D. Other foreign currency payments

Type of payment	Local supplier making the payment	Overseas beneficiary	Calculation of foreign currency payments		Summary of payments
			Foreign currency value paid	Tender Rate of Exchange	
(D46)	(D47)	(D48)	(D49)	(D50)	(D51)
(D52) Total of foreign currency payments declared by tenderer and/or 3rd party					

(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above R 0

This total must correspond with Annex C - C 23

Signature of tenderer from Annex B _____

Date: _____

Part T2: Returnable Documents
Section T2.2: Returnable Documents

PRIMARY STEEL PRODUCTS - Reinforcing Bars (100%)

Refer to item in the BOQ:

Annex D										SATS 1286.2011	
Imported Content Declaration - Supporting Schedule to Annex C											
(D1)	Tender No.						Note: VAT to be excluded from all calculations				
(D2)	Tender description:										
(D3)	Designated Products:										
(D4)	Tender Authority:										
(D5)	Tendering Entity name:										
(D6)	Tender Exchange Rate:	Pula		EU	R 9.00	GBP	R 12.00				
A. Exempted imported content											
Calculation of imported content										Summary	
Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted imported value
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)
(D19) Total exempt imported value										R 0	
This total must correspond with Annex C - C 21											
B. Imported directly by the Tenderer											
Calculation of imported content										Summary	
Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Total imported value
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)
(D32) Total imported value by tenderer										R 0	
C. Imported by a 3rd party and supplied to the Tenderer											
Calculation of imported content										Summary	
Description of imported content	Unit of measure	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Quantity imported	Total imported value
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)
(D45) Total imported value by 3rd party										R 0	
D. Other foreign currency payments											
Calculation of foreign currency payments					Summary of payments						
Type of payment	Local supplier making the payment	Overseas beneficiary	Foreign currency value paid	Tender Rate of Exchange	Local value of payments						
(D46)	(D47)	(D48)	(D49)	(D50)	(D51)						
(D52) Total of foreign currency payments declared by tenderer and/or 3rd party											
Signature of tenderer from Annex B					(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above						
Date: _____					R 0						
					This total must correspond with Annex C - C 23						

Part T2: Returnable Documents
Section T2.2: Returnable Documents

VALVES PRODUCTS AND ACTUATORS - Ball valves (70%)

Refer to item in the BOQ:

Annex D											SATS 1286.2011	
Imported Content Declaration - Supporting Schedule to Annex C												
(D1)	Tender No.										Note: VAT to be excluded from all calculations	
(D2)	Tender description:											
(D3)	Designated Products:											
(D4)	Tender Authority:											
(D5)	Tendering Entity name:											
(D6)	Tender Exchange Rate:		Pula		EU R 9.00		GBP R 12.00					
A. Exempted imported content					Calculation of imported content						Summary	
Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted imported value	
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)	
										(D19) Total exempt imported value		
										R 0		
										This total must correspond with Annex C - C 21		
B. Imported directly by the Tenderer					Calculation of imported content						Summary	
Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Total imported value	
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)	
										(D32) Total imported value by tenderer		
										R 0		
C. Imported by a 3rd party and supplied to the Tenderer					Calculation of imported content						Summary	
Description of imported content	Unit of measure	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Quantity imported	Total imported value	
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)	
										(D45) Total imported value by 3rd party		
										R 0		
D. Other foreign currency payments				Calculation of foreign currency payments						Summary of payments		
Type of payment	Local supplier making the payment	Overseas beneficiary	Foreign currency value paid	Tender Rate of Exchange						Local value of payments		
(D46)	(D47)	(D48)	(D49)	(D50)						(D51)		
					(D52) Total of foreign currency payments declared by tenderer and/or 3rd party							
					(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above					R 0		
					This total must correspond with Annex C - C 23							
Signature of tenderer from Annex B												
Date:												

Part T2: Returnable Documents
Section T2.2: Returnable Documents

VALVES PRODUCTS AND ACTUATORS - Taps, Cocks (70%)

Refer to item in the BOQ:

SATS 1286.2011

Annex D

Imported Content Declaration - Supporting Schedule to Annex C

(D1) Tender No. _____

(D2) Tender description: _____

(D3) Designated Products: _____

(D4) Tender Authority: _____

(D5) Tendering Entity name: _____

(D6) Tender Exchange Rate: _____

Note: VAT to be excluded from all calculations

Pula _____

EUR R 9.00 GBP R 12.00

A. Exempted imported content

Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Calculation of imported content						Summary	
				Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted imported value
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)
(D19) Total exempt imported value										R 0	

This total must correspond with Annex C - C 21

B. Imported directly by the Tenderer

Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Calculation of imported content						Summary	
				Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Total imported value
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)
(D32) Total imported value by tenderer										R 0	

C. Imported by a 3rd party and supplied to the Tenderer

Description of imported content	Unit of measure	Local supplier	Overseas Supplier	Calculation of imported content						Summary	
				Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Quantity imported	Total imported value
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)
(D45) Total imported value by 3rd party										R 0	

D. Other foreign currency payments

Type of payment	Local supplier making the payment	Overseas beneficiary	Calculation of foreign currency payments		Summary of payments
			Foreign currency value paid	Tender Rate of Exchange	
(D46)	(D47)	(D48)	(D49)	(D50)	(D51)
(D52) Total of foreign currency payments declared by tenderer and/or 3rd party					

Signature of tenderer from Annex B _____

Date: _____

(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above R 0

This total must correspond with Annex C - C 23

Part T2: Returnable Documents
Section T2.2: Returnable Documents

STEEL VALUE ADDED PRODUCTS- Fabricated Structural Steel **(100%)** Refer to item in the BOQ:

SATS 1286.2011

Annex E

Local Content Declaration - Supporting Schedule to Annex C

(E1)	Tender No.	
(E2)	Tender description:	
(E3)	Designated products:	
(E4)	Tender Authority:	
(E5)	Tendering Entity name:	

Note: VAT to be excluded from all calculations

Local Products (Goods, Services and Works)	Description of items purchased	Local suppliers	Value
	(E6)	(E7)	(E8)
(E9) Total local products (Goods, Services and Works)			R 0

(E10) **Manpower costs** (Tenderer's manpower cost) R 0

(E11) **Factory overheads** (Rental, depreciation & amortisation, utility costs, consumables etc.) R 0

(E12) **Administration overheads and mark-up** (Marketing, insurance, financing, interest etc.) R 0

(E13) Total local content R 0

This total must correspond with Annex C - C24

Signature of tenderer from Annex B

Date: _____

THE CONTRACT

PART C1: AGREEMENT AND CONTRACT DATA

C1.1 FORM OF OFFER AND ACCEPTANCE

C1.1: FORM OF OFFER AND ACCEPTANCE

Project title:	Tender for the appointment of a contractor for the Construction of Jewellery Manufacturing Precinct (JMP) Superblock Building: (Building 4)		
Bid no:	GEP001-SUPERBLOCK/2018	Site Reference No.:	Bonaero Drive, Portion 282 The Farm Witkoppe 64-IR

OFFER

The Employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of: **Tender for the appointment of a contractor for Construction of Jewellery Manufacturing Precinct (JMP) Superblock Building: (Building 4).**

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

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

THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VALUE ADDED TAX IS:

Rand in words:	
Rand in figures:	R

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

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

Company or Close Corporation: And: Whose Registration Number is: And: Whose Income Tax Reference Number is:
--

OR

Natural Person or Partnership: Whose Identity Number(s) is/are: Whose Income Tax Reference Number is/are:
--

Part C1: Agreements and Contract Data

AND WHO IS (if applicable):

Trading under the name and style of:
.....

AND WHO IS:

Represented herein, and who is duly authorised to do so, by:

Mr/Mrs/Ms:

In his/her capacity as:
.....

Note:

A Resolution / Power of Attorney, signed by all the Directors / Members / Partners of the Legal Entity must accompany this Offer, authorising the Representative to make this offer.

SIGNED FOR THE BIDDER:

Name of representative	Signature	Date

WITNESSED BY:

Name of witness	Signature	Date

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

The official documents ☐

The official alternative ☐

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

Own alternative (only if documentation makes provision therefore) .. ☐

Part C1: Agreements and Contract Data

SECURITY OFFERED:

The Bidder agrees to provide a bank or insurance guarantee in accordance with clauses 11.1.2 or 11.1.3 of the JBCC Edition 6.1 Principal Building Agreement within the period stated in the Contract Data. This guarantee shall be for a sum equal to an amount stated in the Contract Data.

- (a) the Bidder accepts that in respect of contracts up to R1 million, a payment reduction** of 5% of the contact value (excluding VAT) will be applicable and will be deducted by the Employer in terms of the applicable conditions of contract
- (b) in respect of contracts above R1 million, the Bidder offers to provide security as indicated below:
- (1) cash deposit of 10 % of the Contract Sum (excluding VAT) Yes ☐ No ☐
- (2) variable construction guarantee of 10 % of the Contract Sum (excluding VAT) Yes ☐ No ☐
- (3) payment reduction of 10% of the value certified in the payment certificate (excluding VAT) Yes ☐ No ☐
- (4) cash deposit of 5% of the Contract Sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT) Yes ☐ No ☐
- (5) fixed construction guarantee of 5% of the Contract Sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT) Yes ☐ No ☐

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

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

.....
...

Other Contact Details of the Bidder are:

Telephone No	Cellular Phone No.
Fax No	Other contact No.
Postal address:	
Banker Branch.....	
Registration No of Bidder at Department of Labour	
CIDB Registration Number: (Attached copy of certificate)	

ACCEPTANCE

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

The terms of the contract, are contained in:

Part 1 Agreement and contract data, (which includes this agreement)

Part 2 Pricing data

Part 3 Scope of work

and drawings and documents or parts thereof, which may be incorporated by reference into Parts 1 to 3 above.

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

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

Notwithstanding anything contained herein, this agreement comes into effect, if delivered by hand on the day of delivery, or if delivered by courier within two working days after submission by the Employer to the courier services for a door-to-door delivery to the Bidder, provided that the Employer notifies the Bidder of the tracking number within 24 hours of such submission. Unless the Bidder (now Contractor) within seven working days of the date of such submission notifies the Employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

Part C1: Agreements and Contract Data

For the Employer:

Name of signatory	Signature	Date

Name of Organisation:	Gauteng Enterprise Propeller
Address of Organisation:	Gauteng Enterprise Propeller 6 th Floor, 124 Main Street, Marshalltown, Johannesburg, 2001 Telephone :011 085 2500

WITNESSED BY:

Name of witness	Signature	Date

CHANGES MADE TO JBCC DOCUMENTATION

Notes:

1. The extent of deviations from the bid documents issued by the Employer prior to the bid closing date is limited to those permitted in terms of the Conditions of Bid.
2. A Bidder's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid become the subject of agreement reached during the process of, offer and acceptance, the outcome of such agreement shall be recorded here.
3. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the bid document and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here.
4. Any change or addition to the bid documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the Contract.

1. Subject:
Detail:

2. Subject:
Detail:

3. Subject:
Detail:

4. Subject:
Detail:

5. Subject:
Detail:

6. Subject:
Detail:

By the duly authorised representatives signing this agreement, the Employer and the Bidder agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the tender data and addenda thereto as listed in the tender schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the Bidder 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 Bidder of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this agreement.

C1.2 CONTRACT DATA

C 1.2: CONTRACT DATA - JBCC PRINCIPAL BUILDING AGREEMENT *(Edition 6.1 of March 2014)*

Project title:	Tender for the appointment of a contractor for the construction of the Jewellery Manufacturing Precinct (JMP) Superblock Building: (Building 4)		
Bid no:	GEP001-SUPERBLOCK/18	Site Reference No.:	Bonaero Drive, Portion 282 The Farm Witkoppe 64-IR

	The Conditions of Contract are clauses 1 to 30 of the JBCC Principal Building Agreement (Edition 6.1 of March 2014) prepared by the Joint Building Contracts Committee. Copies of these conditions of contract may be obtained through most regional offices of the Association of South African Quantity Surveyors, Master Builders Association, South African Association of Consulting Engineers, South African Institute of Architects, Association of Construction Project Managers, Building Industries Federation South Africa, South African Property Owners Association or Specialist Engineering Contractors Committee.
--	---

	CONTRACT SPECIFIC DATA The following contract specific data are applicable to this contract:
	CONTRACT VARIABLES The Principal Building Agreement Contract Data contains all variables referred to in this document. The Employer or his Agent need to complete section A-Tender Information, B-Contract Data, C-Tender Closing in full and include it in the Bid documents. Section D-Tenderer's Selection must be left blank by the Employer or his Agent for the Contractor to fill in. The Contract Data categories form part of this agreement. Spaces requiring information must be filled in, shown as 'not applicable' or deleted but not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross referenced to the applicable clause of the schedule. Key cross reference clauses are italicized in [] brackets. The Principal Agent, in accordance with Clause 1.1, shall obtain the specific approval from the Employer before executing any of his functions according to the "Conditions under which Consultants are appointed", or in the event where an employee of the Employer represents the Employer, the relevant General Delegations applicable at the time of executing his/her duties as described in Clause 6.2.

Part 1: CONTRACT DATA PROVIDED BY THE EMPLOYER:	
A - TENDER INFORMATION	
A1	Project Name TENDER FOR THE APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF JEWELLERY MANUFACTURING PRECINCT (JMP) SUPERBLOCK BUILDING: (BUILDING 4)
A2	Works Description GENERAL BUILDING WORKS WITH SPECIALISED SERVICES INCLUDING ALL SUPPORTING SERVICES
A3	Site Description Erf No/Township Portion 282, Farm Witkoppie 64-IR Local Authority City of Ekurhuleni Municipality Street Address Bonaero Drive
A4	CONTRACTING AND OTHER PARTIES
[1.1]	Employer: Gauteng Enterprise Propeller Postal address: 124 Main Street Marshalltown Johannesburg 2001 Practice Registration Number: VAT No.: Contact Person: Email: 2003/021743/07 N/A Supply Chain Management <u>superblockidz@gep.co.za</u>
[2.4]	Registered street address: 124 Main Street Marshalltown Johannesburg 2001

A5 – A9	PRINCIPAL AGENT
[6.1]	Principal Agent and Other Consulting Services The Principal Agent referred to in the Agreement. The Principal Agent address for receipt of communications is: Name SILVERHORNS CONSULTING Contact Person: Mr Thabo Munyai Physical address: Postal address: Route 21 Corporate Park PO BOX 6512 77 Commissioner Street, MEYERSDAL Johannesburg CBD 1448 2001 Telephone: (011) 492 0125 Email: info@silverhorns.co.za
A6 – A13	
[6.2]	Agent(1)
[6.2]	Agent(2)
[6.2]	Agent(3)
[6.2]	Agent(4)

B – CONTRACT DATA	
	Clause references apply to the JBCC Principal Building Agreement Edition 6.1 (PBA) published March 2014. Only clauses in the PBA requiring the provisions of information, indicated as [CD], are quoted below.
2.0 [2.1] [25.15]	Law, regulations and notices: The law applicable to this agreement: South Africa

5.0	Contract documents:				
[5.1]	Signed contract documents held by the principal agent, or: Number of copies of documents issued free to the contractor:		Employer		
[5.5]			2 (Two)	Number of copies	
Priced document					
Lump sum priced document: System method of measurement		No	Yes or No	Priced Bill of Quantities:	Yes
		Standard System of Measuring Builders Work (6th Edition)			
Contract Documents comprising:					
	Description			Marked	Notes
	JBCC Principal Building Agreement - Edition 6.1 (March 2014)			A	
	JBCC PBA Contract Data - Edition 6.1 (March 2014)			B	
	[Any documents that form part of Contract Document]			C	
	Note: If insufficient space, please see annexure:				

6.0	Employer's agents			
[6.3]	Description of interest of agents in the project other than professional services, if applicable:			N/A
10.0	Insurances			
	By the employer in the joint names of the parties, yes/no? Contract Works Insurance (CWI) (including materials and goods, temporary works) Public Liability Insurance (each and every claim OR unlimited / value) Supplementary Insurance (incl. CWI extensions) Removal of Lateral Support Other:	Obligation	Currency	Insured amount
		No		
				not applicable
				not applicable
				not applicable
				not applicable
				not applicable

OR	By the contractor in the joint names of the parties, yes/no?	Yes		
	Contract Works Insurance (CWI) (including materials and goods, temporary works)	Contractor	ZAR	Contract Sum + 10%
	Public Liability Insurance (each and every claim OR unlimited for the period)	Contractor	ZAR	5 Million
	Supplementary Insurance (incl CWI extensions)	Contractor	ZAR	Contract Sum + 10%
	Other:	Contractor	ZAR	TBC
11.0	Security			
[11.1.1 to 5]	The contractor shall provide a Guarantee for Construction to the employer>D11.2-3 Yes/No		Yes	
12.0	Duties of parties			
[9.2.7]	Alterations and additions to existing premises?	Yes		
[12.1.2]	Premises occupied - yes/no? Identify area?	No		
[12.1.3]	Relevant natural features to be retained / relocated / removed	N/A		
[12.1.4]	Areas the contractor may not occupy?	N/A		
[12.1.5]	Utilities connection – location	Existing to be pointed out on site		
[12.1.6]	Statutory and/or other notices to be complied with by the contractor before possession of site can be given	Construction Permit issued by DoL		
[12.1.7]	Possession of the site - intended date	To be determined		
	Possession of the site will be given within 10 calendar days after the contractor has fulfilled the conditions (2.1; 12.2.2-3; 12.2.5-6) and received the notification from the Employer of Site Hand Over where the contractor will receive one fully signed copy of the Form of Offer and Acceptance from the employer.			
[12.1.1 2]	Description of free issue by employer (attach separate page for multiple items)	N/A		
14.0	Nominated subcontractors			
[14.1.4]	Specialization:	N/A		
	Note: If insufficient space, please see annexure:			
16.0	Direct subcontractors			
	Employer to define extent of work by a direct contractor [12.1.2]			
[16.1]	Specialization:	Exhibition Design and Installation – Basement -1 Level		
[16.1]	Specialization:	N/A		
	Note: If insufficient space, please see annexure:			
	Practical completion / penalty for late completion			

19.0 / 20.0 / 24.0	The Practical Completion date is:		TBC (time measured from the Commencement date.)									
OR (only 1 option can apply)	Practical Completion of the works as a whole:	<table><tr><th>Inspection days</th><th>Date for practical completion</th><th>Penalty currency</th><th>Penalty amount / day</th></tr><tr><td>8</td><td>15 to 18 Months from Site Handover to Contractor</td><td>ZAR</td><td>R 21 000.00/day</td></tr></table>			Inspection days	Date for practical completion	Penalty currency	Penalty amount / day	8	15 to 18 Months from Site Handover to Contractor	ZAR	R 21 000.00/day
	Inspection days	Date for practical completion	Penalty currency	Penalty amount / day								
	8	15 to 18 Months from Site Handover to Contractor	ZAR	R 21 000.00/day								
	[19/20/24]	Practical Completion of the works in sections: 1	<table><tr><td>N/A</td><td>N/A</td><td>ZAR</td><td>R 21 000.00/day</td></tr></table>			N/A	N/A	ZAR	R 21 000.00/day			
N/A	N/A	ZAR	R 21 000.00/day									
[19/20/24]	Practical Completion of the works in sections: 2	<table><tr><td>N/A</td><td>N/A</td><td>ZAR</td><td>R 21 000.00/day</td></tr></table>			N/A	N/A	ZAR	R 21 000.00/day				
N/A	N/A	ZAR	R 21 000.00/day									
[21.1]	The defects liability period is: <i>(Shall commence on the calendar day following the date for Practical completion and end at midnight, of the period indicated below, from the date of Practical Completion.)</i>	12 Months for Electrical, Mechanical, Industrial and Civil works 90 Calendar Days for Building Works										
[22]	<u>Latent Defect Period</u> The latent defect period is:	5 years after the Final Completion certificate. (clause 22)										
<u>Documentation required before Commencement of the Works</u>												
[12.2.2 to 12.2.6]	The time to submit the documentation required before commencement with Works execution is: 10 calendar days											
[12.2]	The documentation required before commencement with the Works execution are;											
[2.1]	Health and Safety Plan	The Contractor shall deliver his Health and Safety Plan of the Works within 10 calendar days after Notice of Intent the Employer to enter into Contract.										
[12.2.6]	Initial Programme	The Contractor shall deliver his programme of work within 5 working days after notice from the Principal Agent, after to the Commencement Date.										
[12.2.3]	Guarantee	The Contractor shall deliver his chosen Guarantee (security) for this Works within 10 calendar days after Notice of Intent the Employer to enter into Contract.										
[12.2.5]	Insurance	The Contractor shall deliver his insurance for the Works within 10 calendar days after Notice of Intent the Employer to enter into Contract.										
	Cash flow by contractor	The Contractor shall deliver his cash flow projections for the Works within 10 calendar days after the Commencement Date.										
[12.2.2]	Priced Bill of Quantity	The Contractor shall deliver his Balanced Priced Bill of Quantities within 2 calendar days after Notice of Intent the Employer to enter into Contract.										

	Other requirements	
	Other requirements	
	Note: If insufficient space, please see annexure:	
		N/A
19.0	Practical Completion	
[19.1.1]	Items that do not have to be complete to achieve practical completion	
	N/A	
	Note: If insufficient space, please see annexure:	
		N/A
[19.1.1]	Criteria to achieve practical completion (the BoQ may contain a more detailed description)	
	Per specification	
	Note: If insufficient space, please see annexure:	
		N/A
25.0	Payment	
[25.0]	Currency:	ZAR
[25.2]	Issue of regular payment certificates on	24 th
[25.3.2]	Materials and goods off site - paid subject to	day of the month
[25.3.4]		Guarantee for Advance Payment provided
		N/A
	Contract price adjustment provisions	JBCC CPA Indices Application Manual
[26.9.5]	Base Month (If Applicable)	Not Applicable
	Alternative Indices:	Not Applicable
	Where CPAP is applicable, the contract sum will be adjusted in accordance with the P0151 indices published by Statistics South Africa as set out in the Contract Price Adjustment Provisions (CPAP) Indices Application Manual as published by Statistics South Africa, dated 1 January 2013 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 bills of quantities.
	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 adjusted in accordance with Work Group 170.
	3	Further to clause 3.4.6 of the CPAP Indices Application Manual, the listing of additional items for exclusion by Bidder's, will not be permitted.
	Notwithstanding anything to the contrary contained in the General conditions of Contract and Preliminaries, this contract could only, when the construction	

	period exceeds 6 months and the contract exceeds R1,000,000.00, be subject to a Contract Price Adjustment Factor.	
	<i>Note: If insufficient space, please see annexure:</i>	N/A
30.0	Dispute Resolution	
[30.6.1]	Alternative Dispute Resolution nominating body	Association of Arbitrators (South Africa)

[1.1]	Changes made to JBCC documentation The following definitions have been amended or added to this agreement.	
	ADVERSE WEATHER CONDITIONS - in clause 23.1.1 means conditions over and above what could reasonably be expected for the specific locality where the Works are being executed and include inter alia excessive rain, heat, cold, wind and any other climatic condition that would not normally be experienced during the season that the Works are executed in that area. The South African Weather Service's (http://www.weathersa.co.za) 10 year average climatic conditions statistics would be what could be reasonably expected for the specific locality where the Works are executed.	
	COMMENCEMENT DATE – means the date of possession of the site by the contractor (site handover) which shall not occur before the Bidder have fully complied with submitting documents required in terms of clause 12.2.2 to 12.2.6 and when the Bidder can receive one fully signed copy of the Offer and Acceptance in terms of the Form of Offer and Acceptance.	
	The Agreement comes into effect on the date when; The tenderer receives one fully completed original copy of this document, including the Changes made to JBCC documentation (if any) The agreement (“this document”) consists of; 1. Agreement and Conditions of Contract. 2. Form of Offer and Acceptance including the Changes made to JBCC documentation. 3. Contract Data. 4. Scope of Works. 5. Site Information. 6. Drawings & documents referred to in the 1 to 5 above. (See Form of Offer and Acceptance)	
	CORRUPT PRACTICE – means the offer, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.	
	FRAUDULENT PRACTICE – means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any Bidder and includes collusive practice among Bidders (prior to or after the Bid submission) designed to establish Bid prices at artificial non-competitive levels and to deprive the Bidder of the benefits of free and open competition.	

	INTEREST – the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be in terms of the legislation of the Republic of South Africa, and in particular: a) in respect of interest owed by the Employer, the interest rate as determined by the Minister of Justice and Constitutional Development from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No. 55 of 1975), will apply; and b) in respect of interest owed to the Employer, the interest rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), will apply.
	PREFERRED PARTY - means a responsive Bidder, who scored the most preferential points and receives notification from the employer to provide the documentation as stated in the contract data, within the period stated in the contract data, prior to the site hand over and commencement of the project.
	PRINCIPAL AGENT – means the person or entity appointed by the Employer and named in the contract data. In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by a representative of the Employer as named in the contract data.
	Clause 6.1 should be amended to include the following addition to the first sentence "except in clauses 23.7 and 23.8; 26.7 and 26.12 in terms of which the Employer has retained its authority and has not given a mandate to the principal agent and in terms of which the Employer shall make all decisions and sign all documents."
	Clause 10.2 and 10.10 - Replace the word "employer" with the word "contractor".
	Delete clause 11.4.1 and 11.4.2
	Delete clause 11.5
	Delete clause 11.10
	Delete clause 12.1
	Add to clause 12.2.13 "The contractor shall supply, at his own cost, and keep an original of the JBCC Principal Building Agreement (Edition 6.1) and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times."
	Amend clause 21.6 as follows "The 90 calendar days are replaced with the period indicated in the Contract Data for building work and for electrical, mechanical and civil work." - see Practical completion / penalty for late completion above for periods.
	Delete clause 25.12.3
	Add the following clauses to clause 27.2; i) clause 27.2.11 - "the contractor's failure or neglect to commence with the works on the dates prescribed in the contract." ii) clause 27.2.12 - "the contractor's failure or neglect to proceed with the works in terms of the contract." iii) clause 27.2.13 - "the contractor's failure or neglect for any reason to complete the works in accordance with the contract."

	iv) clause 27.2.14 - "the contractor's refusal or neglect to comply strictly with any of the conditions of contract or any contract instructions and/or orders in writing given in terms of the contract." v) clause 27.2.15 - "the contractor's estate being sequestrated; liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa."
	Delete clause 28.1.1
	Delete clauses 29.14.1
	Delete clause 29.17.6
	Delete clause 29.24
	Clause 21.1 and 21.6 - The "90 calendar days" are replaced with the period indicated in the Contract Data for building work and for electrical, mechanical and civil work.
C - BID CLOSING	
	Bid closing: 23 Feb 2018 date Bid closing: time 11:00am time Bid closing place: Gauteng Enterprise Propeller Submission address Ground Floor, Main Entrance and Reception 124 Main Street Marshalltown Johannesburg 2001 Email address N/A Delivered in electronic format? no yes / no Alternative offer considered? no yes / no Only if original bid submitted no yes / no

D - BIDDER'S SELECTION (To be completed by the bidder)			
11.0	Securities		
	<i>Obligation</i>		
[11.1.2]	Guarantee for Construction (variable)	If specified, contractor's choice	☐ yes / no
[11.1.3]	or Guarantee for Construction (fixed)	If specified, contractor's choice	☐ yes / no
	or		
	i) cash deposit of 10 % of the Contract Price		☐ yes / no
	ii) bank or insurance Performance Guarantee of 10 % of the Contract Price		☐ yes / no
	iii) payment reduction of 10% of the value certified in the payment certificate (excluding VAT)		☐ yes / no
	iv) cash deposit of 5% of the Contract Price and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT)		☐ yes / no
	v) bank or insurance guarantee of 5% of the Contract Price and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT)		☐ yes / no
	<i>Note: The Contractor to ensure that the guarantee is valid at all times, in terms of the Agreement with the Employer</i>		
[11.1.4]	Guarantee for Advance Payment	Provided by contractor	n/a yes / no
	(where the contractor requests the employer to pay an advance for materials and goods)		
	Purpose	Currency	Amount
[11.4]	Guarantee for Payment	Provided by the employer	no yes / no
		n/a Currency n/a	Amount
19.0	Contractor's holiday periods during the construction period?		
	Contractor's annual holiday period - year 1	from	21 Mar 18 until 21 Mar 18
	Contractor's 'other' holiday period - year 1	from	30 Mar 18 until 2 Apr 18
	Contractor's annual holiday period - year 1	from	02 Apr 18 until 02 Apr 18
	Contractor's 'other' holiday period - year 1	from	27 Apr 18 until 27 Apr 18
	Contractor's annual holiday period - year 1	from	1 May 18 until 1 May 18
	Contractor's 'other' holiday period - year 1	from	16 Jun 18 until 16 Jun 18
	Contractor's 'other' holiday period - year 1	from	9 Aug 18 until 9 Aug 18
	Contractor's 'other' holiday period - year 1	from	24 Sep 18 until 24 Sep 18
	Contractor's 'other' holiday period - year 1	from	14 Dec 2018 until 7 Jan 2019
	Contractor's 'other' holiday period - year 2	from	21 March 19 until 21 March 19
	Contractor's 'other' holiday period - year 2	from	22 April 19 until 22 April 19
	Contractor's 'other' holiday period - year 2	from	27 April 19 until 27 April 19
	Contractor's 'other' holiday period - year 2	from	1 May 19 until 1 May 19
	Contractor's 'other' holiday period - year 2	from	16 Jun 19 until 16 Jun 19
	Contractor's 'other' holiday period - year 2	from	9 Aug 19 until 9 Aug 19
	Contractor's 'other' holiday period - year 2	from	24 Sep 19 until 24 Sep 19
	<i>Note: If insufficient space, please see annexure:</i>		

26.0	Payment / Adjustment of Preliminaries
Option A	Payment of Preliminaries Assessed by Principal Agent, an amount pro-rated to the value of the works executed in the same ratio as the Preliminaries to the Contract Sum, (including tax); shall exclude the amount of preliminaries, all Contingency Sum(s) and any allowance for CPAP ☐ Yes yes / no
Option B	<i>or</i> An amount agreed by the Principal Agent and the contractor in terms of the Bills of Quantities or the priced document to identify an initial establishment charge / a monthly charge / and a final dis-establishment charge ☐ yes / no Where the Contractor does not indicate option 'A' or option 'B' - option 'A' shall apply

Adjustment of Preliminaries [26.9.4]	
Option A	For the adjustment of Preliminaries both the Contract Sum and the Contract Value (including tax) shall exclude the amount of Preliminaries, all Contingency Sum(s) and any provision for Cost Price Adjustment Provisions:- - An amount which shall not be varied. - An amount varied in proportion to the contract value as compared to the Contract Sum. - An amount varied in proportion to the Construction Period as compared to the initial Construction Period (excluding revisions to the Construction Period to which the Contractor is not entitled) to adjustment of the Contract Value in terms of the agreement. The Contractor shall provide a breakdown of charges (including tax) within 15 working days of the date of acceptance of tender and, where applicable, an apportionment of Preliminaries per section If the Contractor and the Principal Agent cannot agree, within 10 Working Days from the Commencement Date, on such a division then the Principal Agent shall make a division of the Preliminaries to be incorporated in the valuations for each monthly payment certificate as follows; 10% of the amount shall not be varied 15% varied in proportion of the Contract Value to the Contract Sum 75% varied in proportion to the revised Construction Period compared with the initial Construction Period. ☐ yes / no
	Where sectional completion is required in terms of the agreement, the Contractor shall provide the Principal Agent with the division of the above categorized amounts into sections. Should the Contractor fail to provide such information within the period stipulated the categorized amounts shall be prorated to the value of each section. <i>or</i>

Option B	The Contractor shall within 15 working days of the date of possession of the site provide the Principal Agent with a detailed breakdown of Preliminaries amounts for the works as a whole, or per section where applicable, including administrative and supervisory staff charges and for the use of construction equipment in terms of the programme. <input style="width: 40px; height: 20px;" type="checkbox"/> <i>yes / no</i> Where the Contractor does not indicate option 'A' or option 'B' - option 'A' shall apply												
1.	By submission of this tender to the Employer the tenderer offers and agrees to execute and complete the works and remedy any defects in conformity with the specification for the tender sum stated - to be paid in instalments as work is completed.												
2.	The tender shall remain in full legal force for forty five (45) calendar days from the closing date of the tender. The Tenderer accepts liability for damages that may be suffered by the Employer should the tender validity period not be honored.												
3.	The lowest or any offer will not necessarily be accepted by the Employer - nor need reasons be given for such a decision.												
4.	Any provision in this agreement that may confer any benefit or right in favor of any Sub Contractor shall be binding on the parties and be capable of acceptance by such Sub Contractor at any time.												
5.	Annexures marked as; <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 5%; text-align: center;">A</td><td style="width: 95%;"></td></tr> <tr> <td style="text-align: center;">B</td><td></td></tr> <tr> <td style="text-align: center;">C</td><td></td></tr> </table>	A		B		C							
A													
B													
C													
TENDER SUM COMPILATION <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="width: 45%;"></th><th style="width: 10%; text-align: center;"><i>Currency</i></th><th style="width: 45%;"></th></tr> </thead> <tbody> <tr> <td>Tenderer's work excluding tax</td><td style="text-align: center;"> ZAR </td><td style="text-align: right;"><i>Amount</i> </td></tr> <tr> <td>Tax 14% at percentage 14% </td><td style="text-align: center;"> ZAR </td><td style="text-align: right;"><i>Amount</i> </td></tr> <tr> <td>Total TENDER SUM inclusive of tax</td><td style="text-align: center;"> ZAR </td><td style="text-align: right;"><i>Amount</i> </td></tr> </tbody> </table> <i>Tender sum in words</i> Waiver of the Contractors lien or right of continuing possession is required. Yes			<i>Currency</i>		Tenderer's work excluding tax	ZAR	<i>Amount</i>	Tax 14% at percentage 14%	ZAR	<i>Amount</i>	Total TENDER SUM inclusive of tax	ZAR	<i>Amount</i>
	<i>Currency</i>												
Tenderer's work excluding tax	ZAR	<i>Amount</i>											
Tax 14% at percentage 14%	ZAR	<i>Amount</i>											
Total TENDER SUM inclusive of tax	ZAR	<i>Amount</i>											

	SPECIAL CONDITIONS OF CONTRACT
	Duties and functions of the Principal Agent requiring the specific approval of the Employer BEFORE execution of any part of these duties are as follows: a) Determinations of contractors claims for extension of time (revision of the contract completion date). All claims for extension of time shall be submitted by the Principal Agent, together with the Principal Agent's recommendations, to the Employer for determination. (see clauses 23.7 and 23.8). b) Drawings, instructions or communications of any kind requiring variations of the works and involving EXTRA's shall NOT be given effect by the Contractor UNTIL BOTH the "Official Variation Order" and the "Financial Request for Variation Order and Additional Funds" form, as issued by the Department of Public Works, have been approved and signed by the Employer. c) Insurance policies to be approved by the Employer within 21 days of the date of the Commencement of the Works. d) Any notice of disagreement raised by the Contractor or written Dispute Notice given by the Contractor to the Principal Agent shall be submitted by the Principal Agent, together with the Principal Agent's recommendations, to the Employer for determination. e) The issue of the certificate of practical completion, certificate of completion and the final approval certificate shall be signed and submitted by the Principal Agent, to the Employer for final approval and signature. The certificates shall not be considered as officially issued until signed by the Employer. MANAGING PROJECT DURATION a) The Contractor shall co-ordinate his programme with all other contractors whose work may precede or be executed simultaneously to his own. The Contractor will be called upon to plan and control the project using the Project Evaluation and Review Technique (PERT) or other approved Critical Path Method (CPM) network analysis of his events and activities and those of the Sub Contractors in his employ and must co-ordinate his planning with any other contractor employed on the project. A fortnightly project control report will be expected from the Contractor in writing, evaluating any gains or delays against the critical path and he should allow for all costs involved in planning reviewing and updating the programme to the satisfaction of the Principal Agent against this item. b) Activity-and total float shall belong to the Employer. c) The Contractor shall deliver his programme of work within 15 working days after notice from the Principal Agent, prior to the Commencement Date.(cl 12.2.6) It is a condition of this contact that, the Contractor submit to the Principal Agent a detailed CPM Programme which shall be to the approval of the Principal Agent. In this regard tenderers are advised to consult with the Principal Agent as to the format and requirements of the programme as no claim whatsoever will entertained should the programme fail to meet the requirements of the Principal Agent. Failure to submit the programme within the stipulated time may result in the Contractor being held in breach of contract.

	The approved programme will form the basis of time management of the project and extension of time will not be guaranteed unless the Contractor has strictly complied with this provision. The programme shall make allowance for rain and the number of rain days allowed within the critical path shall be on the provisions of the clause dealing with adverse weather conditions and claiming for delays in performance in this bill. Allowance for the above must be made under this item as no claims for failing to comply with this precondition will later be entertained. ADVERSE WEATHER CONDITIONS AND CLAIMS FOR DELAYS IN PERFORMANCE
	a) The Contract Sum includes a monthly allowance of 3 working days for adverse weather conditions during which rainfall exceeds 10mm per day for the months as indicated in the Scope of Works. These days shall be reflected on the critical path of the Contractor's programme as specified in MANAGING PROJECT DURATION above. b) Claims for delays in performance due to adverse weather conditions shall be calculated separately for each calendar month and for the project as a whole. Delays or gains to the critical path shall be reflected in all revisions of the programme. An extension of time will only be granted where the following conditions are met: i) The criteria to be used for WORK stoppages shall be for safety hazards or poor quality of work. ii) The Employer's site representative or the Employer's Principal Agent, if the site representative is not available shall be notified, in terms of clause 23.4.2 of the JBCC PBA Ed 6.1, when the Contractor stops the work and intends to claim performance delays. The Employer representative shall inspect the situation together with the Contractor and give an immediate decision. 1 The stoppage claimed must cause a delay in the practical completion of work. If the critical activities can proceed and a non-critical activity is delayed due to adverse weather conditions no claims for delay shall be granted. 2 No claims for stoppages less than 2(two) hours per day shall be considered. 3 Claims granted for more than 2 (two) hours, but less than 10 (ten) hour (lunch included) day, shall be added together and expressed as full days. 4 All claims shall be submitted in writing to the principal agent in terms of clause 23.5 of the JBCC PBA Ed 6.1. 5 The total delay in performance granted to the Contractor expressed in days shall be added to the contractual completion date of each section of the works. The contractual penalty clause shall only come into effect after this newly arrived date. 6 Total delays (in hours) will be rounded up or down to the nearest integer for the calculation of working days. The total hours (including lunch) per working day shall be 10 unless otherwise indicated on the Contractor's programme 7 Where the programmed delays for adverse weather conditions exceed the actual delays incurred the completion date(s) will not be adjusted. 8 Where the project includes builder' holidays the programmed durations for adverse weather conditions shall be adjusted pro-rate to the actual working days 9 The total of all monthly delays due to adverse weather conditions shall be calculated in accordance with the example given below:

Description		Months					Total
		Sept	Oct	Nov	Dec	Jan	
		Hours	Hours	Hours	Hours	Hours	Hours
Programmed	Rain days	0	30	30	15	15	90
Actual	Rain days	16	22	35	15	18	106
Difference		-16	8	-5	0	-3	-16
8 hrs/day*		Estimated Extension of time - in Working Days					2
See point 5.2 in the Scope of Works for the specific days the bidder must allow for this contract.							

BIDDER'S DETAILS

Name

Business eg: public company

Business registration number VAT No.

Contact person Mobile

E-mail

Registered street address

Postal address Code

Telephone Fax

SIGNATURES OF THE CONTRACTING PARTIES

Thus done and signed
at.....

on
.....of.....20.....

	Name of signatory	for and behalf of the Employer who by signature hereof warrants authorisation hereto.
	Capacity of signatory	as Witness.
	Thus done and signed at.....	
	onof.....20.....	
	Name of signatory	for and behalf of the Contractor who by signature hereof warrants authorisation hereto.
	Capacity of signatory	as Witness.

C1.3 FORM OF SECURITY

C1.3 GUARANTEE FOR CONSTRUCTION for use with JBCC Principal Building Agreement (Edition 6.1)

Group Executive EPMO
GAUTENG ENTERPRISE PROPELLER
124 Main Street
Marshalltown
Johannesburg
2001

Dear Sir/Madam,

GUARANTEE FOR CONSTRUCTION

For use with the JBCC Principal Building Agreement, Edition 6.1

GUARANTOR DETAILS AND DEFINITIONS

"Guarantor" means:

Physical Address:

Guarantor's signatory: _____

Capacity _____

Name of Signatory : _____

"Employer" means: Gauteng Enterprise Propeller

"Contractor" means:

"Principal Agent" means: Silverhorns Consulting

"Works" means: Construction of Jewellery Manufacturing Precinct (JMP)
Superblock Building: (Building 4)

"Site" means: Bonaero Drive, Portion 282 The Farm Witkoppie 64-IR

"Contract" means: The Agreement made in terms of the Form of Offer and Acceptance and such amendments or additions to the Contract as may be agreed in writing between the parties.

"Contract Sum" means: The accepted amount inclusive of tax of:

R _____

Amount in

Words: _____

"Guaranteed Sum" means: The maximum aggregate amount of: **10%** of Contract Sum Amount

inWords: _____

Security for Construction: (*Insert Fixed or Variable*) "Expiry Date" means: Practical Completion Date

AGREEMENT DETAILS

Sections: Total number / not applicable _____ Last Section _____

Principal Agent Issues: JBCC® format Interim Payment Certificates, the Final Payment Certificate, the Certificate of Practical Completion and the Certificate of Final Completion

1.0 GUARANTEE FOR CONSTRUCTION (Variable)

- 1.1 Where a Guarantee for Construction (Variable) in terms of the Agreement has been selected this clause 1.0 and 3.0 to 13.0 shall apply. The Guarantor's liability shall be limited to the diminishing amounts of the Guaranteed Sum as follows:-

- | | GUARANTOR'S LIABILITY | PERIOD OF LIABILITY |
|------|---|---------------------------------|
| 1.1. | Maximum Guaranteed Sum (not exceeding 10.0% | From and including the date of |
| 1 | of the contract sum) in the amount of: | issue of this Guarantee for |
| | R_____ | Construction and up to and |
| | | including the date of issue of |
| | | the interim payment certificate |
| | | certifying in excess of 50% of |
| | | the contract sum. |

Amount in words

- | | | |
|------|---|-------------------------------|
| 1.1. | Reducing to the Guaranteed Sum (not exceeding | From and including the |
| 2 | 6.0 % of the contract sum) in the amount of: | day after the date of the |
| | R_____ | aforesaid interim payment |
| | | certificate and up to and |
| | | including the date of issue |
| | | of the only Certificate of |
| | | Practical Completion or |
| | | last Certificate of Practical |
| | | Completion where there |
| | | are sections. |

Amount in words

- | | | |
|------|---|---------------------------|
| 1.1. | Reducing to the Guaranteed Sum (not exceeding | From and including the |
| 3 | 4.0% of the contract sum) in the amount of: | day after the date of the |
| | R_____ | applicable Certificate of |
| | | Practical Completion and |
| | | up to and including the |
| | | date of issue of the only |
| | | Certificate of Final |
| | | Completion or the last |
| | | Certificate of Final |
| | | Completion where there |
| | | are sections. |

Amount in words

- 1.1. Reducing to the Guaranteed Sum (not exceeding
4 2.0% of the contract sum) in the amount of:

R_____

From and including the day after the date of the applicable Certificate of Final Completion and up to and including the date of issue of the Final Payment Certificate where payment is due to the Contractor, whereafter this Guarantee for Construction shall expire. Where the Final Payment Certificate reflects payment due to the Employer this Guarantee for Construction shall expire upon payment of the full amount certified.

Amount in words

--

- 1.2 The Guarantor's liability limits set out in 1.1.1 to 1.1.4 shall apply in respect of any claim received by the Guarantor during the Security validity

2.0 GUARANTEE FOR CONSTRUCTION (Fixed)

- 2.1 Where a Guarantee for Construction (Fixed) in terms of the Agreement has been selected this clause 2.0 and 3.0 to 13.0 shall apply. The Guarantor's liability shall be limited to the amount of them Guaranteed Sum as follows:--

GUARANTOR'S LIABILITY

Maximum Guaranteed Sum (not exceeding 5.0% of the contract sum) in the amount of:

R _____

PERIOD OF LIABILITY

From and including the date of issue of this Guarantee for Construction and up to and including the date of the only Certificate of Practical Completion or the last Certificate of Practical Completion where there are sections, whereafter this Guarantee for Construction shall expire.

Amount
in words

--

- 3.0 The GUARANTOR acknowledges that;
- 3.1 Any reference in this Performance Guarantee to the Contract is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship;
- 3.2 its obligation under the Performance Guarantee is restricted to the payment of money.
- 3.3 Reference to a recovery statement or an Interim or Final Payment Certificate, or a Certificate(s) of Practical or Final Completion shall mean such certificate issued by the Principal Agent.
- 4.0 Subject to the Guarantor's maximum liability referred to in clauses 1.0 or 2.0, the Guarantor undertakes to pay the Employer the sum certified on receipt of the documents identified in 4.1 to 4.3:--
- 4.1 A copy of a first written demand notice issued by the Employer to the Contractor stating that payment of a sum certified by the Principal Agent in an interim or Final Payment Certificate has not been made in terms of the Agreement and failing such Payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 4.2.
- 4.2 A first written demand notice issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) calendar days has elapsed since the issue of the first written demand notice in terms of 4.1 and that the sum certified has not been paid to date. The Employer herewith calls up this Guarantee for Construction and demands payment of the sum certified from the Guarantor.
- 4.3 A copy of the applicable payment advice which entitles the Employer to receive payment in terms of the Agreement of the sum certified in 4.0.

- 5.0 Subject to the Guarantor's maximum liability referred to in 1.0 or 2.0 , the Guarantor undertakes to pay the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand notice from the Employer to the Guarantor at the Guarantor's physical address calling up this Guarantee for Construction stating that:--
- 5.1 The Agreement has been terminated due to the Contractor's default and that the Security for Construction is called up in terms of 5.0. The demand notice shall enclose a copy of the notice of termination; or
- 5.2 A provisional sequestration or liquidation court order has been granted against the Contractor and that the Guarantee for Construction is called up in terms of 5.0. The demand notice shall enclose a copy of the court order.
- 6.0 The aggregate amount of payment to be made by the Guarantor in terms of 4.0 and 5.0 shall not exceed the Guarantor's maximum liability in terms of 1.0 or 2.0.
- 7.0 Where the Guarantor is a registered insurer and has made payment in terms of 5.0, the Employer shall within one hundred and eighty (180) calendar days of receipt of payment submit an expense account to the Guarantor showing how all monies received in terms of the Guarantee for Construction have been expended, or will be expended, and shall refund to the Guarantor any surplus amount. All monies refunded to the Guarantor in terms of this Guarantee for Construction shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date of payment by the Guarantor to the Employer until the date of refund.
- 8.0 Payment by the Guarantor in terms of 4.0 or 5.0 shall be made within seven (7) calendar days upon receipt of the first written demand notice to the Guarantor.
- 9.0 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 from this Guarantee for Construction on account of any conduct alleged to be prejudicial to the Guarantor.
- 10.0 The Guarantor chooses the physical address stated above for all transactions in relation to this security.
- 11.0 This Guarantee for Construction is neither negotiable nor transferable and shall expire in terms of either 1.1.4 or 2.1, or on payment in full of the Guaranteed Sum or on the Security expiry date, whichever is the earlier, where after no claims will be considered by the Guarantor. The original Guarantee for Construction form shall be returned to the Guarantor after it has expired.
- 12.0 This Guarantee for Construction, with the required demand notices in terms of 4.0 or 5.0, shall be regarded as a liquid document for the purpose of obtaining a court order.
- 13.0 Where this Guarantee for Construction is issued in the Republic of South Africa the Guarantor hereby consents to the jurisdiction of a court in the area where the project is located.

Signed at	Date
Guarantor's signatory (1)	Capacity
Guarantor's signatory (2)	Capacity
Witness signatory (1)	Witness signatory (2)

Guarantor's seal or stamp:	
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1 C1.4:	AGREEMENT IN TERMS OF THE OCUPATIONAL HEALTH AND SAFETY ACT,1993 NO 85 OF 1993)

PART C1: AGREEMENT AND CONTRACT DATA

1 C1.4: AGREEMENT IN TERMS OF THE OCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT NO 85 OF 1993)

THIS AGREEMENT made at _____

on this the _____ day of _____ in the year _____

between GAUTENG ENTERPRISE PROPELLER (GEP) (hereinafter called "the Employer") of the one part, herein represented by

in his capacity as _____

and

(hereinafter called "the Mandatory") of the other part, herein represented by

in his capacity as _____

WHEREAS the Employer is desirous **that certain works be constructed, viz :**

CONSTRUCTION JEWELLERY MANUFACTURING PRECINCT (JMP) SUPERBLOCK BUILDING: (BUILDING 4)

and has accepted a Bid by the Mandatory for the construction, completion and maintenance of such Works and whereas the Employer and the Mandatory have agreed to certain arrangements and procedures to be followed in order to ensure compliance by the Mandatory with the provisions of the Occupational Health and Safety Act, 1993 (Act 85 of 1993);

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

- 1 The Mandatory shall execute the work in accordance with the Contract Documents pertaining to this Contract.
- 2 This Agreement shall hold good from its Commencement Date, which shall be the date of a written notice from the Employer or Engineer requiring him to commence the execution of the Works, to either
 - (a) the date of the Final Approval Certificate issued in terms of the JBCC,

- 3 The Mandatory declares himself to be conversant with the following:
 - (a) All the requirements, regulations and standards of the Occupational Health and Safety Act (Act 85 of 1993), hereinafter referred to as "The Act", together with its amendments and with special reference to the following Sections of The Act:
 - (i) Section 8 : General duties of employers to their employees;
 - (ii) Section 9 : General duties of employers and self-employed persons to persons other than employees;
 - (iii) Section 37: Acts or omissions by employees or mandataries, and
 - (iv) Subsection 37(2) relating to the purpose and meaning of this Agreement.
 - (b) The procedures and safety rules of the Employer as pertaining to the Mandatory and to all his subcontractors.
- 4 In addition to the requirements of the JBCC and all relevant requirements of the above-mentioned Volume 3, the Mandatory agrees to execute all the Works forming part of this Contract and to operate and utilise all machinery, plant and equipment in accordance with the Act.
- 5 The Mandatory is responsible for the compliance with the Act by all his subcontractors, whether or not selected and/or approved by the Employer.
- 6 The Mandatory warrants that all his and his subcontractors' workmen are covered in terms of the Compensation for Occupational Injuries and Diseases Act, 1993 which cover shall remain in force whilst any such workmen are present on site. A letter of good standing from the Compensation Commissioner to this effect must be produced to the Employer upon signature of the agreement.
- 7 The Mandatory undertakes to ensure that he and/or subcontractors and/or their respective employers will at all times comply with the following conditions:
 - (a) The Mandatory shall assume the responsibility in terms of Section 16.1 of the Occupational Health and Safety Act. The Mandatory shall not delegate any duty in terms of Section 16.2 of this Act without the prior written approval of the Employer. If the Mandatory obtains such approval and delegates any duty in terms of section 16.2 a copy of such written delegation shall immediately be forwarded to the Employer.
 - (b) All incidents referred to in the Occupational Health and Safety Act shall be reported by the Mandatory to the Department of Labour as well as to the Employer. The Employer will further be provided with copies of all written documentation relating to any incident.
 - (c) The Employer hereby obtains an interest in the issue of any formal inquiry conducted in terms of section 32 of the Occupational Health and Safety Act into any incident involving the Mandatory and/or his employees and/or his subcontractors.
8. **The contact details of the OH&S Agent for the GEP will be advised on date of award**

Name of the Bidding Entity: _____

In witness thereof the parties hereto have set their signatures herein in the presence of the subscribing witnesses:

SIGNED FOR AND ON BEHALF OF THE GEP:

WITNESS 1

NAME 1

(IN CAPITALS)

SIGNED FOR AND ON BEHALF OF THE MANDATORY:

WITNESS 1

NAME 1

(IN CAPITALS)

Name of Bidding Entity:.....

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1 C2.1 Pricing Instructions	
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PART C2: PRICING DATA

C2.1 Pricing Instructions

- C2.1.1.1 The method of measurement published by the South African Bureau of Standards in Clause 8 of the Standardised Specifications for Civil Engineering Construction is applicable, subject to the variations and amendments contained in the section “Applicable SABS 1200 standardised specifications”.
- C2.1.1.2 Descriptions in the Schedule/Bill of Quantities are abbreviated and comply generally with those in the Standardised Specifications. Clause 8 of each Standardised Specification, read together with the relevant clauses of the Scope of Work, set out what ancillary or associated activities are included in the rates for the operations specified. Should any requirements of the measurement and payment clause of the applicable Standardised Specification, or the Scope of Work, conflict with the terms of the Schedule/Bill, the requirements of the Standardised or Scope of Work, as applicable, shall prevail.
- C2.1.1.3 The clauses in a specification in which further information regarding the schedule/bill item can be obtained appear under “Reference clause” in the Schedule. The reference clauses indicated are not necessarily the only sources of information in respect of schedule items. Further information and set specifications may be found elsewhere in the contract documents. Standardised Specifications are identified by the letter or letters which follow SABS in the SABS 1200 series of specifications, e.g. G for SABS 1200 G.
- C2.1.1.4 Work reserved for Labour Intensive construction methods will be numbered with a prefix “LI” in the Price Schedule to distinguish them from the conventional construction works. Such work shall be constructed using local labour who are temporarily employed in terms of the project specification
- C2.1.1.5 Unless otherwise stated, items are measured nett in accordance with the drawings, and no allowance is made for waste. The Schedule has to be completed in black non-erasable ink and the tenderer is referred to the Tender Specifications in regard to the correction of errors.
- C2.1.1.6 The quantities set out in the Schedule/Bill of Quantities are the estimated quantities of the Contract Works, but the Contractor will be required to undertake whatever quantities may be directed by the Engineer from time to time. The Contract Price for

the completed contract shall be computed from the actual quantities of work done, valued at the relevant unit rates and prices.

- C2.1.1.7 The prices and rates to be inserted in the Schedule/Bill of Quantities are to be the full inclusive prices for the work described under the several items. 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. Reasonable 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.
- C2.1.1.8 A price or rate is to be entered against each item in the Schedule/Bill of Quantities, whether the quantities are stated or not. An item against which no price is entered will be considered to be covered by the other prices or rates in the Schedule.
- C2.1.1.9 Except where rates only are required, the Tenderer shall insert all amounts to be included in his total tendered price in the "Amount" column and show the corresponding total tendered price.
- C2.1.1.10 All prices or rates inserted in the Bill of Quantities shall be EXCLUDING VAT. Provision has been made on the Summary Page, of the Bill of Quantities, for the addition of VAT.
- C2.1.1.11 Arithmetical errors of responsive tenders will be corrected in the following manner:
- § Where there is a discrepancy between an amount shown in figures, and the corresponding amount stated in words, the amount stated in words shall take preference.
 - § In the Bill of Quantities, if there is an error in the line item total resulting from the product of the quantity and the unit rate, the line item total shall govern, and the rate shall be corrected. Where there is a misplacement of the decimal point in the unit rate, the line item total shall govern and the unit rate will be corrected.
 - § Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern and the tenderer will be asked to revise selected item prices (and their rates in the Bill of Quantities) to achieve the tendered total of the prices.

Should a tenderer be unwilling to make the corrections ordered by the Engineer, the tender may be disqualified.

C2.1.1.12 The units of measurement described in the Schedule/Bill of Quantities are metric units. Abbreviations used in the Schedule/Bill of Quantities are as follows :

mm	=	millimetre	h	=	hour
m	=	metre	kg	=	kilogram
km	=	kilometre	t	=	ton (1 000 kg)
m ²	=	square metre	No.	=	number
m ² .pass	=	square metre-pass	sum	=	lump sum
ha	=	hectare	MN	=	MegaNewton
m ³	=	cubic metre	MN.m	=	MegaNewton metre
m ³ .km	=	cubic metre-kilometre	P C sum	=	PrimeCost sum
l	=	litre	Prov sum	=	Provisional sum
kl	=	kilolitre	%	=	per cent
MPa	=	MegaPascal	kW	=	kilowatt

C2.1.1.13 The quantities set out in the Price Schedule are the estimated quantities of the Works, but the Contractor will be required to undertake whatever quantities as may be directed by the Engineer from time to time. The Contract Price for the completed contract shall be computed from the actual quantities of work done, valued at the relevant unit rates and prices.

C2.1.1.14 A price or rate is to be entered against each item in the Price Schedule, whether the quantities are stated or not. An item against which no price is entered or where a word or phrase such as "included" or "provided elsewhere" will be accepted as a rate of nil (R0,00) having been entered against such items and covered by the other prices or rates in the Schedule.

Any work executed to which such a pay item applies, shall be measured under the appropriate items in the Price Schedule and valued at a rate of nil (R0,00). The rate of nil shall be valid irrespective of any change in the quantities during the execution of the Contract.

2 Correction of Entries made by the Tenderer

Any entry made by the Tenderer in the Price Schedule, forms, etc, which the tenderer desires to change, shall not be erased or painted out. A line shall be drawn through the incorrect entry and the correct entry shall be written above in black ink and the full signature of the Tenderer shall be placed next to the correction.

Name of Bidding Entity:.....

Signature of person authorised to sign bid documents

Name in block letters

Designation

Date

Name of Bidding Entity:.....

PART C2: PRICING DATA

C2.2 Bills of Quantities

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

- | | | | | | |
|------|--|--|--|--|--|
| vi) | Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable") | | | | |
| vii) | The clauses in the above-mentioned documents are hereinafter referred to by clause number and heading only | | | | |

PREAMBLES FOR TRADES

- | | | | | | |
|------|---|--|--|--|--|
| i) | The Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained | | | | |
| ii) | Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the Model Preambles | | | | |
| iii) | The contractor's prices for all items throughout these bills of quantities shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles and/or specifications | | | | |

PRICING OF PRELIMINARIES

Should the **contractor** select Option A in the **contract data** for the adjustment of **preliminaries**, the amounts entered against the relevant items in these **preliminaries** are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)

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**SECTION A: PRINCIPAL BUILDING
AGREEMENT****Interpretation (A1-A7)**

1 Clause 1.0 - Definitions and interpretation

Definition of agreement

The definition of **agreement** is replaced with the following definition :

"**AGREEMENT** : The **JBCC** Principal Building Agreement, the completed **JBCC** PBA contract data, the **contract drawings**, the **priced documents** and any other documents reduced to writing and signed by the **parties**"

Pricing of bills of quantities

The **contractor** is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this **agreement**.

Value Added Tax (VAT) is to be separately stated on the summary page of these **bills of quantities**

Items left unpriced will be deemed to be covered in prices against other items throughout these **bills of quantities** and no claim for any extras arising out of the **contractor's** omission to price any item will be entertained

Prices for all **construction equipment**, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary

Abbreviated descriptions

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JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

The items in these bills of quantities utilise abbreviated descriptions. 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 contractor 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 international best practice Legal status of contractor If the contractor constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then: 1. These persons are deemed to be jointly and severally liable to the employer for the performance of this agreement 2. These persons shall notify the employer of their leader who has authority to bind the contractor and each of these persons 3. The contractor shall not alter its composition or legal status without the prior written consent of the employer Errata by JBCC Omit from definition of construction period the words : "excluding annual holiday periods" Omit from definition of preliminaries the word : "priced" F:..... V:..... T:.....			
2 Clause 2.0 - Law, regulations and notices Health and safety Carried to Collection Section No. 1 Bill No. 1 Preliminaries		Item	R

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Without limiting the generality of the provisions of clause 2.0, the **contractor's** attention is drawn to the provisions of Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the **employer** shall prepare a documented health and safety specification for the **works** and that the **employer** shall ensure that the **contractor** has made provision for the cost of health and safety measures during the execution of the **works**. The **contractor** shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification [2.1]

The **contractor** shall:

1. Comply with the health and safety specification for the **works**
2. Prepare and agree with the health and safety consultant the health and safety plan for the **works**
3. Co-operate with the health and safety consultant in all respects
4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification
5. Conform to the conditions contained in the **employer's** health and safety specification

3 Clause 3.0 - Offer and acceptance

F:..... V:.....
T:.....

Item

4 Clause 4.0 - Assignment and cession

F:..... V:.....
T:.....

Item

5 Clause 5.0 - **Contract documents**

Value Added Tax

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Preliminaries

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT) Contract drawings The contract drawings are as listed on the contents page of the bills of quantities [5.1] Priced document as specification Clause 5.3 is deemed to be deleted The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any Precedence Clause 5.6 is deemed to be deleted. The provisions of this Bill No. 1 (Preliminaries) shall take precedence over any other documents which constitute this agreement [5.6] F:..... V:..... T:..... 6 Clause 6.0 - Employer's agents Delegated authority The authority of the principal agent to issue contract instructions and perform duties for specific aspects of the works is delegated to agents as follows [6.2]: 1) <u>Architect</u> <i>Note that the contract instructions hereinafter are those listed in clause 17.0 of the JBCC PBA</i> 1.1 Duties : The architect is responsible for the architectural design, functional design and quality inspection of the works Carried to Collection Section No. 1 Bill No. 1 Preliminaries	Item		R
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1.2 Contract instructions [17.0] : 1.2.1 Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this agreement 1.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works 1.2.4 Compliance with the law, regulations and bylaws [2.1] 1.2.5 Provision and testing of samples of materials and goods, of finishes and assemblies of elements of the works 1.2.6 Opening up of work for inspection, removal or re-execution 1.2.7 Removal or re-execution of work 1.2.8 Removal or substitution of any materials and goods 1.2.9 Protection of the works 1.2.10 Making good physical loss and repairing damage to the works [8.0] 1.2.11 Rectification of defects [21.2] 1.2.12 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion 2. Quantity surveyor <i>Note that the contract instructions hereinafter are those listed in clause 17.0 of the JBCC PBA</i> Carried to Collection	
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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

2.1 Duties : The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the works 2.2.13 Expenditure of budgetary allowances, prime cost amounts and provisional sums 2.2.14 Appointment of a subcontractor [14.0; 15.0] 2.2.15 Termination of a nominated n/s subcontract agreement [27.2.8] 2.2.16 Work by (a) direct contractor(s) [16.0] 3. <u>Civil and structural engineer</u> <i>Note that the contract instructions hereinafter are those listed in clause 17.0 of the JBCC PBA</i> 3.1 Duties : The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection of the works 3.2 Contract instructions [17.0] : 3.2.1 Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this agreement 3.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works 3.2.4 Compliance with the law, regulations and bylaws [2.1] 3.2.5 Provision and testing of samples of materials and goods, of finishes and assemblies of elements of the works Carried to Collection Section No. 1 Bill No. 1 Preliminaries			R
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JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

[illegible]

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

4.2.2	Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works			
4.2.4	Compliance with the law , regulations and bylaws [2.1]			
4.2.5	Provision and testing of samples of materials and goods , of finishes and assemblies of elements of the works			
4.2.6	Opening up of work for inspection, removal or re-execution			
4.2.7	Removal or re-execution of work			
4.2.8	Removal or substitution of any materials and goods			
4.2.9	Protection of the works			
4.2.10	Making good physical loss and repairing damage to the works [8.0]			
4.2.11	Rectification of defects [21.2]			
4.2.12	A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion			
4.2.13	Expenditure of budgetary allowances , prime cost amounts and provisional sums			
4.2.18	Removal from the site of any person employed on the works			
4.2.19	Removal from the site of any person not engaged on or connected with the works			
4.2.20	On termination, protection of the works , removal of construction equipment and surplus materials and goods [29.0]			
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JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

8. <u>Health and safety consultant</u> <i>Note that the contract instructions hereinafter are those listed in clause 17.0 of the JBCC PBA</i> 8.1 Duties : The health and safety consultant is responsible for all aspects of health and safety of the works. Without derogating from the generality thereof, the health and safety consultant will perform the following specific functions and duties in respect of the health and safety aspects of the works: 8.1.1 Act as the employer's agent in terms of Construction Regulations issued in terms of the Occupational Health and Safety Act,1993 8.1.2 Prepare and update the health and safety specification for the works 8.1.3 Agree with the contractor the health and safety plan for the works 8.1.4 Carry out regular audits to ensure adherence to the safety plan and compliance with the Act and Regulations 8.1.5 Stop the execution of the works where the agreed specification or plan is not adhered to F:..... V:..... T:.....			
7 Clause 7.0 - Design responsibility F:..... V:..... T:.....		Item	
<u>Insurance and security (A8-A11)</u>			
8 Clause 8.0 - Works risk F:..... V:..... T:.....		Item	

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9	Clause 9.0 - Indemnities F:..... V:..... T:.....	Item		
10	Clause 10.0 - Insurances F:..... V:..... T:.....	Item		
11	Clause 11.0 - Security Security for payment The employer shall provide to the contractor security for payment in the amount of [11.4.1,11.10] Extension of waiver of lien The contractor shall ensure that a waiver of lien is included in all subcontracts and that the works executed on the site are kept free of all liens and other encumbrances at all times [11.10] Errata by JBCC Clause 11.5 Replace "ten (10)" with "five (5)" F:..... V:..... T:..... <u>Execution (A12 - A17)</u>	Item		
12	Clause 12.0 - Duties of the parties Provisions of clauses 12.1.2 to 12.1.6 and 12.2.18 Refer to the contract data, the Preliminaries document and "Section B : Preliminaries" of this Bill No. 1 with reference to the provisions of clauses 12.1.2 to 12.1.6 and 12.2.18 of the JBCC Principal Building Agreement			
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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Office accommodation

The **contractor** shall provide, maintain and remove on **practical completion** air conditioned office accommodation with suitable tables and chairs for meetings to be held on the **site**. Such offices shall be kept clean and fit for use at all times [12.2.18]

Notice board

The **contractor** shall erect in a position approved by the **principal agent**, maintain and remove on **practical completion** a notice board recommended by the South African Institute of Architects and as approved by the **principal agent** listing the names and logos of the **employer**, the **contractor**, and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the **principal agent** for such notice boards to be erected [12.2.18]

Access to water, sewer, stormwater and electricity connections

Statutory and other notices

User note

Statutory and other notices which the contractor must submit and/or comply with before possession of the site can be given are to be stated here or in the contract data. Reference [12.1.6]

If specific information is not available then the user may consider a clause along the following lines

The **contractor** shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the **works** by the **contractor**. The **contractor** shall pay all deposits or fees in this regard [12.1.6]

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JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

	1. Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials 2. Allow the use of personnel welfare facilities, where provided 3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation 4. Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right, while it remains erected on the site [16.1] Errata by JBCC Clause 16.1.3 Reference should read "[26.5]" F:..... V:..... T:.....			
17	Clause 17.0 - Contract instructions Site instructions Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor Errata by JBCC Clause 17.1.3 Reference should read "[13.2.4]" F:..... V:..... T:.....	Item		
18	<u>Completion (A18 - A24)</u> Clause 18.0 - Interim completion F:..... V:..... T:.....	Item		
	Carried to Collection		R	
	Section No. 1 Bill No. 1 Preliminaries			

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

19	Clause 19.0 - Practical completion F:..... V:..... T:.....	Item		
20	Clause 20.0 - Sectional completion Errata by JBCC Clause 20.2.2 Reference should read "[21.6.2]" F:..... V:..... T:.....	Item		
21	Clause 21.0 - Defects liability period and final completion Errata by JBCC Clause 21.1 Delete the word "final" in the second last line Reference should read "[21.6.1]" Clause 21.9 Reference should read "[21.4 ; 21.6.1]" F:..... V:..... T:.....	Item		
22	Clause 22.0 - Latent defects liability period F:..... V:..... T:.....	Item		
23	Clause 23.0 - Revision of date for practical completion Substitution of materials and goods The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8, 23.1 & 2] Errata by JBCC Clause 23.2 Reference should read "[26.7]" Clause 23.2.1 Reference should read "[12.1.7]"			
Carried to Collection			R	
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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	Errata by JBCC Clause 25.2 The word : "final" in bold in the second line Clause 25.10.3 Reference should read "[25.13 ; 26.10]" New clause 25.12.4 Add the words : "Terminate the agreement [29.14.7] where the listed options [25.12.1-3] have failed" F:..... V:..... T:.....			
26	Clause 26.0 - Adjustment of the contract value and final account Tenant installations/users requirements delayed There is a possibility that certain works related to tenant installations/users requirements may have to be delayed and may consequently not be executed prior to practical completion The employer reserves the right to omit such work without compensation to the contractor for loss of profit or any other loss which the contractor may suffer as a result of such omission Should the contractor be instructed to do so he shall execute this work under the conditions pertaining to this agreement on the basis that a separate amount for preliminaries appurtenant to this work (if applicable) is agreed to between the contractor and the principal agent and on condition that instruction to proceed with such work is given to him within a period of three (3) calendar months after the date of practical completion of the works Cost of claims All costs incurred by the contractor in the preparation of claims shall be borne by the contractor. This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this agreement [30.6,7] from making a determination on costs	Item		
	Carried to Collection Section No. 1 Bill No. 1 Preliminaries		R	

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	The contractor shall review, assess and adjudicate any claims received by him from any subcontractor and thereafter submit same to the principal agent with a recommendation in order to assist the principal agent in adjudicating the claim [26.6] Errata by JBCC Clause 26.4.2 Omit the entire clause and renumber thereafter New clause 26.4.3 "Other proven or unavoidable costs" F:..... V:..... T:.....			
27	Clause 27.0 - Recovery of expense and/or loss F:..... V:..... T:..... <u>Suspension and termination (A28 - A29)</u> Clause 28.0 - Suspension by the contractor Errata by JBCC New clause 28.1.5 and renumber thereafter "Or where an agent has failed to act in terms of this agreement [6.4] Clause 28.2 Replace the word "defect" with "default" in the first line F:..... V:..... T:.....	Item		
		Item		
28	Clause 29.0 - Termination Errata by JBCC Clause 29.1.2 Delete the words : "within the period stated [CD]" Clause 29.14.1 Change as follows : "Provide or maintain a guarantee for payment.....[11.4 - 5]" Clause 29.14.2 Reference should read "[12.1.7]" New clause 29.14.8 "Or where an agent has failed to act in terms of this agreement [6.4]" F:..... V:..... T:.....	Item		
29		Item		
	Carried to Collection		R	
	Section No. 1 Bill No. 1 Preliminaries			

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

	<u>Dispute resolution (A30)</u>			
30	Clause 30.0 - Dispute resolution F:..... V:..... T:.....	Item		
31	Agreement The second sentence of the introduction where the parties sign the agreement, namely "Any provision in this agreement..... acceptance by such subcontractor at any time." is deemed to be deleted The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties F:..... V:..... T:.....	Item		
32	Contract data Payment of preliminaries Where Option B is applicable and the initial construction period is extended the monthly charge shall be recalculated on the same basis as was initially applied but taking into account the revised construction period and the amounts already paid to the contractor [CD26.0] Adjustment of preliminaries Where the adjustment of preliminaries is in terms of Option A, the construction period and the initial construction period shall be calculated in working days [CD 26.0]			
	Carried to Collection		R	
	Section No. 1 Bill No. 1 Preliminaries			

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

Where the adjustment of **preliminaries** is in terms of Option A and sectional completion is required, the **contractor** shall provide the **principal agent** with the division of the categorised amounts into **sections**. Should the **contractor** fail to provide such information within the period stipulated, the categorised amounts shall be prorated to the value of each **section** [CD 26.0]

Where the adjustment of **preliminaries** is required in terms of Option B and sectional completion is required, the **contractor** shall provide the **principal agent** with details of the resources required for each **section** and those that are common to **sections**. Should the **contractor** fail to provide such information within the period stipulated, Option A shall apply [CD 26.0]

Removal of lateral support insurance

Whilst it is stated in clause 10.0 of the **contract data** that the **employer** will not be responsible for **works** and other insurances the **employer** shall nevertheless be responsible for the removal of lateral support insurance in the amount stated

Yes

F:..... V:.....
T:.....

Item

SECTION B: PRELIMINARIES

Interpretation (B1)

33 Clause 1.1 - Definitions

F:..... V:.....
T:.....

Item

34 Clause 1.2 - Interpretation

F:..... V:.....
T:.....

Item

Carried to Collection

R

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>Documents (B2)</u>			
35	Clause 2.1 - Checking of documents F:..... V:..... T:.....	Item		
36	Clause 2.2 - Provisional bills of quantities <u>User note</u> Multiple procurement These bills of quantities are in multiple procurement format ie the "wet trades" - earthworks, concrete, formwork and reinforcement, precast concrete, masonry, waterproofing and sub-surface drainage - are provisionally measured and the subsequent trades are budgetary allowances and/or provisional sums F:..... V:..... T:.....	Item		
37	Clause 2.3 - Availability of construction information Budgetary allowances and provisional sums The budgetary allowances and/or provisional sums allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of subcontractors during the construction period F:..... V:..... T:.....	Item		
38	Clause 2.4 - Ordering of materials and goods F:..... V:..... T:..... <u>Previous work and adjoining properties (B3)</u>	Item		
39	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item		
	Carried to Collection		R	
	Section No. 1 Bill No. 1 Preliminaries			

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

40	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item		
41	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:.....	Item		
	<u>The site (B4)</u>			
42	Clause 4.1 - Defined works area F:..... V:..... T:.....	Item		
43	Clause 4.2 - Handover of site in stages F:..... V:..... T:.....	Item		
44	Clause 4.3 - Enclosure of the works F:..... V:..... T:.....	Item		
45	Clause 4.4 - Geotechnical investigation F:..... V:..... T:.....	Item		
46	Clause 4.5 - Encroachments F:..... V:..... T:.....	Item		
47	Clause 4.6 - Existing premises occupied F:..... V:..... T:.....	Item		
48	Clause 4.7 - Services - known F:..... V:..... T:.....	Item		
	Carried to Collection		R	
	Section No. 1 Bill No. 1 Preliminaries			

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

49	Clause 4.8 - Protection of trees and/or relevant natural features F:..... V:..... T:.....	Item		
	<u>Management of contract (B5)</u>			
50	Clause 5.1 - Management of the works F:..... V:..... T:.....	Item		
51	Clause 5.2 - Progress meetings F:..... V:..... T:.....	Item		
52	Clause 5.3 - Technical meetings F:..... V:..... T:.....	Item		
	<u>Samples, shop drawings and manufacturer's instructions (B6)</u>			
53	Clause 6.1 - Samples of materials F:..... V:..... T:.....	Item		
54	Clause 6.2 - Workmanship samples F:..... V:..... T:.....	Item		
55	Clause 6.3 - Shop drawings F:..... V:..... T:.....	Item		
56	Clause 6.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	Item		
	Carried to Collection		R	
	Section No. 1 Bill No. 1 Preliminaries			

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

<u>Deposits and fees (B7)</u>				
57	Clause 7.1 - Deposits and fees F:..... V:..... T:.....	Item		
<u>Temporary services (B8)</u>				
58	Clause 8.1 - Water F:..... V:..... T:.....	Item		
59	Clause 8.2 - Electricity F:..... V:..... T:.....	Item		
60	Clause 8.3 - Ablution and welfare facilities F:..... V:..... T:.....	Item		
61	Clause 8.4 - Communication facilities F:..... V:..... T:.....	Item		
<u>Prime cost amounts (B9)</u>				
62	Clause 9.1 - Responsibility for prime cost amounts <i>Where details of materials included in prime cost amounts <u>are not</u> readily available and it is therefore not possible for the contractor to price for waste, the relevant prime cost amount shall be inserted in the bills of quantities as a lump sum with the contractor being given the opportunity to separately price his overheads and profit and for taking delivery, etc as called for in this clause 9.1 of the preliminaries. In such case the fixing only or installation only of the relevant materials shall be provisionally measured for the contractor to price and shall be re-measured upon completion</i>			
Carried to Collection			R	
Section No. 1 Bill No. 1 Preliminaries				

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<i>Where details of materials for which prime cost amounts are to be allowed <u>are</u> readily available, the quantity surveyor may elect to insert the relevant prime cost amounts in measured items, which measured items shall contain sufficient detail for the contractor to price for fixing and installation, waste, etc</i> F:..... V:..... T:..... <u>Attendance on subcontractors (B10)</u>			
63	Clause 10.1 - General attendance <u>User note</u> <i>General attendance is defined as being the duties of the contractor in terms of clause 12.2 of the JBCC n/s subcontract agreement</i> F:..... V:..... T:.....	Item		
64	Clause 10.2 - Special attendance <i>It is important to note that general attendance only requires the contractor to "permit the subcontractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right while it remains erected on the site" (refer to 12.2.13 of the JBCC n/s subcontract agreement). Many n/s subcontractors qualify their tenders to exclude scaffolding and/or hoisting facilities. Especially scaffolding could be an expensive item and it may be necessary in order to avoid claims to require the contractor to provide for the extended use of scaffolding for specific subcontracts within a description of "special attendance" in the applicable bill</i> F:..... V:..... T:..... <u>General (B11)</u>	Item		
65	Clause 11.1 - Protection of the works F:..... V:..... T:.....	Item		
	Carried to Collection		R	
	Section No. 1 Bill No. 1 Preliminaries			

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

66	Clause 11.2 - Protection/isolation of existing/sectionally occupied works F:..... V:..... T:.....	Item		
67	Clause 11.3 - Security of the works F:..... V:..... T:.....	Item		
68	Clause 11.4 - Notice before covering work F:..... V:..... T:.....	Item		
69	Clause 11.5 - Disturbance F:..... V:..... T:..... Clause 11.6 - Environmental disturbance F:..... V:..... T:.....	Item		
70	Clause 11.7 - Works cleaning and clearing F:..... V:..... T:.....	Item		
71	Clause 11.8 - Vermin F:..... V:..... T:.....	Item		
72	Clause 11.9 - Overhand work F:..... V:..... T:.....	Item		
73	Clause 11.10 - Tenant installations by direct contractors F:..... V:..... T:.....	Item		
Carried to Collection			R	
Section No. 1 Bill No. 1 Preliminaries				

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

74	Clause 11.11 - Advertising F:..... V:..... T:..... <u>Preliminaries schedule (B12)</u>	Item		
75	Information for completion of the preliminaries schedule Information necessary for elections and completion of those clauses contained in the preliminaries schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that no specific requirements are expected or that the clause is not relevant to this specific contract 12.1 - Provisional bills of quantities [2.2] The quantities are provisional 12.2 - Availability of construction information [2.3] Construction documentation is complete: Yes 12.3 - Previous work - dimensional accuracy [3.1] 12.4 - Previous work - defects [3.2] 12.5 - Inspection of adjoining properties [3.3] 12.6 - Defined works area [4.1] 12.7 - Handover of site in stages [4.2] 12.8 - Enclosure of the works [4.3] 12.9 - Geotechnical investigation [4.4] a Geotechnical investigation report is available from the Civil Engineer's offices 12.10 - Existing premises occupied [4.6] 12.11 - Services - known [4.7]			
	Carried to Collection		R	
	Section No. 1 Bill No. 1 Preliminaries			

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

F:..... V:.....
T:.....

SECTION C: SPECIFIC PRELIMINARIES

76 Warranties for materials and workmanship

Where warranties for materials and/or workmanship are called for, the **contractor** shall obtain a written warranty, addressed to the **employer**, from the entity supplying the materials and/or doing the work and shall deliver same to the **principal agent** on the **final completion** of the contract

The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of **practical completion** and that any **defects** that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written **notice** to do so

The warranty will not be enforced if the work is damaged by **defects** in the execution of the **works**, in which case the responsibility for replacement shall rest entirely with the **contractor**

F:..... V:.....
T:.....

77 Co-operation of the **contractor** for cost management

It is specifically agreed that the **contractor** accepts the obligation of assisting the **principal agent** in implementing proper cost management. The **contractor** will be advised by the **principal agent** of all cost management procedures which will be implemented to ensure that the **contract value** does not exceed the budget

F:..... V:.....
T:.....

Item

Item

Item

Carried to Collection

R

Section No. 1
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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

78	Overloading				
	The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense F:..... V:..... T:.....	N/A			
79	Propping of floors below				
	The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor F:..... V:..... T:.....	N/A			
80	Testing of flat roof waterproofing for watertightness				
	Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least forty (40) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing F:..... V:..... T:.....	N/A			
Carried to Collection					R
Section No. 1					
Bill No. 1					
Preliminaries					

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	The contractor is to submit to the principal agent on an annual basis a schedule of spend, split into vendors engaged as subcontractors and suppliers indicating their BBBEE rating including proof of the said rating	Item	
	F:..... V:..... T:.....		
81	Advertising rights The employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The contractor shall not prevent such an arrangement and will assist in the facilitation of same. Position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in meeting the obligations under this agreement	Item	
	F:..... V:..... T:.....		
82	Confidentiality The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works No information regarding this project shall be published or disclosed without the prior written consent of the employer	Item	
	F:..... V:..... T:.....		
	Carried to Collection		R
	Section No. 1 Bill No. 1 Preliminaries		

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

83 Media releases

All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the **employer**

The **contractor** together with his **subcontractors** shall not, without the prior written consent of the **employer**, cause any statement or advertisement connected with this project to be printed, screened or aired by the media

F:..... V:.....
T:.....

SUMMARY OF CATEGORIES

Category : Fixed R.....
Category : Value R.....
Category : Time R.....

Item

Carried to Collection

R

Section No. 1
Bill No. 1
Preliminaries

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

[illegible]

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

[illegible]

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Item No		Quantity	Rate	Amount
	<u>SECTION No. 2</u>			
	<u>BILL No. 1</u>			
	<u>PILING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Indemnity</u>			
	The contractor shall take full responsibility for piling work and shall guarantee that piling work will support the calculated loads laid down by the engineer without injurious settlement. The actual lengths of piles shall be determined on site by the contractor in consultation with the engineer who will give all assistance possible. This does not in any way relieve the contractor of his responsibility or obligation to provide the specified guarantee			
	The contractor shall indemnify the employer against any injury to or death of any person and all loss or damage to all structures resulting from the failure of any pile. In the event of the failure of a pile the contractor shall make good such pile and all consequent damage at his own expense			
	The contractor shall insure by means of a policy, approved by the principal agent, against risks arising out of the responsibilities, guarantee and indemnities specified. The contractor shall pay all premiums in respect of this insurance policy.			
	<u>Scope of work</u>			
	The work comprises the design and installation of 94 In-Situ concrete piles.			
	The contractor is referred to drawings issued together with these bills of quantities in order to acquaint himself fully with the nature and scope of the work.			
	The building platform is already excavated, filled, levelled and compacted to the required levels			
	Carried to Collection		R	
	Section No. 2			
	Bill No. 1			
	Piling			

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

<u>GUARANTEE AND INSURANCE</u>			
1	Insurance policy against claims arising from the installation of piling up to a limit of R 5 000 000,00 (Five Million Rand) per claim with no limit on the number of claims that may occur and effective for a period of 5 years from the date of completion of the contract		Item
<u>ESTABLISHMENT</u>			
2	Setting out of piles		Item
3	Transporting to and establishment on site of necessary plant for the execution of the work and removal thereof on completion		Item
4	Setting up plant at pile position	No	94
<u>IN-SITU CONCRETE AUGERED PILES</u>			
<u>Pre-Drilling not exceeding 10m deep in earth below ground level</u>			
5	All diameter pile shafts for additonal foundation investigations	m	188
<u>Drilling not exceeding 10m deep in earth below ground level</u>			
6	500mm Diameter pile shafts	m	940
7	Extra over drilling 500mm diameter pile shaft for under-reaming enlarged foot 650mm diameter extreme and 650mm high	No	94
<u>Drilling in strata of a more difficult character</u>			
8	Extra over drilling and under-reaming in earth for drilling in hard rock	m3	19
<u>Extra over drilling for carting away</u>			
9	Surplus material from pile shafts etc to a dumping site situated approximately 1km from the building site	m3	177
Carried to Collection			R
Section No. 2			
Bill No. 1			
Piling			

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>Casings</u>				
10	Temporary casings to 500mm diameter pile shafts to prevent collapse of excavations, ingress of water, etc including removal	m	940		
	<u>40MPa/19mm reinforced concrete</u>				
11	All diameter piles including enlarged footing	m3	188		
	<u>Formwork</u>				
12	Formwork to 500mm diameter pile above ground level	m	28		
	<u>TEST CUBES</u>				
13	Making and testing 150 x 150 x 150mm concrete strength test cube	No	14		
	<u>REINFORCEMENT</u>				
	<u>Mild steel reinforcement</u>				
14	Mild steel	t	5.92		
	<u>High tensile steel reinforcement</u>				
15	High tensile steel	t	7.24		
	<u>EXPOSING PILES FOR INSPECTION</u>				
16	Exposing pile for inspection including excavation 1m deep in earth and backfilling compacted to 93% Mod	m3	94		
	<u>TESTING</u>				
17	Transporting to and establishment on site of necessary testing plant for the execution of the work and removal thereof on completion		Item		
18	Integrity testing in-situ concrete pile	No	38		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 1				
	Piling				

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

[illegible]

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Item No		Quantity	Rate	Amount
	<u>SECTION No. 2</u>			
	<u>BILL No. 2</u>			
	<u>FOUNDATIONS</u>			
	<u>NOTE:</u>			
	Tenderers are advised to study the Model Preambles for Trades 2008 before pricing this bill			
	<u>NOTE IN RESPECT OF REMEASUREMENT OF FOUNDATIONS:</u>			
	Foundation brickwork and concrete columns have been measured to top of unfinished floor level			
	<u>Nature of ground</u>			
	A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities.			
	<u>Subterranean water</u>			
	No subterranean water is expected			
	<u>Excavation for working space in rock</u>			
	Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as "extra over" bulk excavation or trench and hole excavation as the case may be			
	<u>Carting away of excavated material</u>			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	Carried to Collection			
			R	
	Section No. 2			
	Bill No. 2			
	Foundations			

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Filling

Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material

Testing

Prices for filling are to include for all necessary density tests in accordance with SABS 1200D

EXCAVATION, FILLING, ETC OTHER THAN BULK

Working space for formwork to sides of all concrete, except columns, shall be measured only where the concrete face is less than 750mm from the face of the measured excavations

Working space for formwork to sides of columns shall be measured for the width of the column face only where both:

the top of the column base is more than 1,5m below the commencing level of the excavations and

the column face is less than 500mm from the face of the measured excavations

No claim shall be considered for any working space for formwork to concrete other than as above described or for working space beyond the sides of trench excavations for the building of brick or block walls. Descriptions of excavations for working space shall be deemed to include for any additional risk of collapse so incurred and for the returning and compacting of the excavated material as described

EXCAVATIONS, ETCExcavation in earth not exceeding 2m deep

1	Lift pits	m3	60
2	Trenches	m3	298

Carried to Collection

R

Section No. 2
Bill No. 2
Foundations

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

3	Holes	m3	216		
4	Trenches including working around piles	m3	11		
5	Holes including working around piles	m3	197		
	<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 95% Mod AASHTO density</u>				
6	Not exceeding 500mm deep for placing and removing formwork to walls etc, 500mm away from excavated face	m2	771		
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
7	Soft rock	m3	78		
8	Hard rock	m3	39		
	<u>Extra over all excavations for carting away</u>				
9	Surplus material from excavations and/or stock piles on site, to a dumping site situated approximately 5km from the building site	m3	272		
	<u>Risk of collapse of excavations</u>				
10	Sides of trench and hole excavations not exceeding 1,5m deep	m2	2,038		
	<u>Keeping excavations free of water</u>				
11	Keeping excavations free of all water other than subterranean water		Item		
	<u>FILLING ETC</u>				
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted in layers of 150mm to 93% Mod AASHTO density</u>				
12	Backfilling to trenches, holes, etc	m3	500		
13	Under floors, steps, pavings, etc	m3	361		
Carried to Collection				R	
Section No. 2					
Bill No. 2					
Foundations					

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>15MPa/19mm concrete</u>				
23	Surface blinding under footings and bases	m3	13		
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>25MPa/19mm concrete</u>				
24	Strip footings	m3	41		
25	Bases	m3	50		
26	Pile caps	m3	56		
	<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>				
	<u>25MPa/19mm concrete</u>				
27	Walls	m3	26		
	<u>30MPa/19mm concrete</u>				
28	Columns	m3	25		
	<u>TEST CUBES</u>				
29	Making and testing 150 x 150 x 150mm concrete strength test cube	No	16		
	<u>CONCRETE SUNDRIES</u>				
	<u>Stripping back heads of concrete piles to expose reinforcement including trimming to defined levels and bending reinforcement as necessary for casting into pile caps</u>				
30	500mm Diameter pile with a working load not exceeding 1000kN	m	28		
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>				
	<u>Rough formwork (Degree of Accuracy III) to sides</u>				
31	Pile caps	m2	226		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 2				
	Foundations				

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

	<u>Rough formwork (Degree of Accuracy II) to sides</u>				
32	Walls	m2	234		
33	Rectangular and square stub columns	m2	8		
34	Rectangular and square columns	m2	247		
	<u>REINFORCEMENT</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
35	8mm Diameter bars	t	3.60		
36	10mm Diameter bars	t	2.40		
	<u>High tensile steel reinforcement to structural concrete work</u>				
37	10mm Diameter bars	t	3.60		
38	12mm Diameter bars	t	3.60		
39	16mm Diameter bars	t	5.40		
	<u>BRICKWORK</u>				
	<u>Brickwork of NFP clay bricks in class II mortar</u>				
40	230mm Brick walls	m2	148		
41	345mm Brick walls	m2	10		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Joint forming material in movement joints</u>				
42	10mm Expanded polystyrene (density 33kg per m3) built in vertically between brick skins	m2	6		
	<u>2.5mm Brickwork reinforcement</u>				
43	150mm Wide reinforcement built in horizontally	m	1,741		
44	225mm Wide reinforcement built in horizontally	m	109		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 2				
	Foundations				

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

EXTERNAL PLASTER

Cement plaster wood trowelled, on brickwork

45	On walls	m2	18
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Cement plaster wood trowelled, on concrete

46	On walls	m2	2
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47	On projecting and isolated columns	m2	5
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48	On narrow widths	m2	48
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PAINT ON FLOATED PLASTER

One coat "Dulux Plaster Primer", one coat "Dulux Primer Sealer" and two full coats "Dulux Weatherguard" extremely durable UV-resistant waterbased mica reinforced fine textured acrylic paint

49	On external walls, columns, etc	m2	73
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Carried to Collection

Section No. 2
Bill No. 2
Foundations

R

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

[illegible]

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

Item No		Quantity	Rate	Amount
	<u>SECTION No. 2</u>			
	<u>BILL No. 3</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>NOTE:</u>			
	Tenderers are advised to study the Model Preambles for Trades 2008 before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Cost of tests</u>			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)			
	<u>Formwork</u>			
	Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use			
	The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself			
	Carried to Collection			
	Section No. 2			
	Bill No. 3			
	Concrete, Formwork and Reinforcement			
			R	

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

	Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described				
	Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described				
	Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"				
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete</u>				
1	Surface beds	m3	301		
2	Slabs including beams and inverted beams	m3	2,005		
3	Isolated beams	m3	12		
4	Stairs including landings, beams and inverted beams	m3	20		
5	Walls	m3	121		
	<u>30MPa/19mm concrete</u>				
6	Columns	m3	179		
	<u>TEST CUBES</u>				
7	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	203		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
8	Tops of beams, walls, etc	m2	75		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 3				
	Concrete, Formwork and Reinforcement				

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>				
9	Tops of beams, walls, etc	m2	24		
	<u>Finishing top surfaces of concrete smooth with a power float</u>				
10	Surface beds, slabs, etc	m2	10,475		
	<u>Wire brushing of concrete surfaces to expose aggregate</u>				
11	Sides of walls	m2	198		
12	Sides of columns	m2	1,774		
	<u>M 802 Multigrout non-shrink grout supplied and placed in accordance with the manufacturer's specifications</u>				
	Rates for grout shall include for all preparation, removal of laitance, loose concrete, temporary formwork, etc				
13	Bedding approximately 50mm thick under 350 x 350mm base plate including chamfered edges all round	No	4		
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Rough formwork to sides</u>				
14	Walls with total height exceeding 3,5m and not exceeding 5,0m above bearing level	m2	726		
15	Walls with total height exceeding 11,0m and not exceeding 12,5m above bearing level	m2	198		
16	Inner face of shaft walls	m2	392		
17	Inverted beams	m2	34		
18	Inverted beams above concrete	m2	824		
19	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	1,050		
20	Sloping and stepped outer edges of stairs not exceeding 300mm high extreme	m	53		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 3				
	Concrete, Formwork and Reinforcement				

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>Rough formwork to soffits</u>				
21	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 3,50m and not exceeding 5,0m high	m2	7,358		
22	Slabs over shafts	m2	18		
23	Cantilever slabs propped up exceeding 11,0m and not exceeding 12,5m high	m2	99		
24	Landings	m2	20		
25	Stairs with sloping soffits	m2	61		
26	Beams propped up exceeding 6,5m and not exceeding 8,0m high	m2	9		
	<u>Rough formwork to sides and soffits</u>				
27	Isolated beams propped up exceeding 11,0m and not exceeding 12,5m high	m2	74		
	<u>Boxing in rough formwork to form</u>				
28	25 x 25mm Chamfers along top or bottom edges	m	2,104		
29	25 x 25mm Vertical chamfers at corners	m	57		
30	15 x 15mm Extreme twice splayed horizontal chases or grooves along bottom edges	m	142		
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Smooth formwork to sides</u>				
31	Rectangular columns with total height exceeding 1,5m and not exceeding 3,5m above bearing level	m2	58		
32	Rectangular columns with total height exceeding 3,5m and not exceeding 5,0m above bearing level	m2	1,651		
33	Rectangular columns with total height exceeding 6,5m and not exceeding 8,0m above bearing level	m2	47		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 3				
	Concrete, Formwork and Reinforcement				

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

34	Rectangular columns with total height exceeding 11,0m and not exceeding 12,5m above bearing level	m2	18		
	<u>Boxing in smooth formwork to form</u>				
35	25 x 25mm Vertical chamfers at corners	m	4,658		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Two layers of 375 micron dampproof course in slip joints between horizontal concrete and brick surfaces including cement mortar bed</u>				
36	Not exceeding 300mm wide	m	1,008		
	<u>Expansion joints with 10mm closed cell expanded polyethylene between vertical concrete surfaces</u>				
37	Not exceeding 300mm high to edges of surface beds	m	57		
	<u>Horizontal expansion joints with 20mm bitumen impregnated softboard between vertical concrete surfaces, including necessary formwork</u>				
38	Not exceeding 300mm high through slabs	m	74		
	<u>Vertical expansion joints with 20mm bitumen impregnated softboard between vertical concrete surfaces, including necessary formwork</u>				
39	Not exceeding 300mm wide through walls	m	10		
40	Not exceeding 300mm wide through columns	m	56		
	<u>Horizontal keyed construction joints through concrete including thick cement slurry to one face</u>				
41	Surface beds not exceeding 300mm thick	m	43		
	<u>REINFORCEMENT</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
42	8mm Diameter bars	t	58.10		
43	10mm Diameter bars	t	38.60		
Carried to Collection				R	
Section No. 2					
Bill No. 3					
Concrete, Formwork and Reinforcement					

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JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Item No		Quantity	Rate	Amount
	<u>SECTION No. 2</u>			
	<u>BILL No. 4</u>			
	<u>PRECAST CONCRETE</u>			
	<u>NOTE:</u>			
	Tenderers are advised to study the Model Preambles for Trades 2008 before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Sizes</u>			
	Blocks, sills, etc measured linear shall be made in suitable lengths. Large size setting out drawings shall be prepared where necessary and submitted to the principal agent for approval before moulds are made			
	<u>General</u>			
	Where kerbstones, blocks, etc are laid in ground descriptions shall be deemed to include necessary excavation, filling in and ramming			
	<u>PRECAST CONCRETE COPINGS ETC</u>			
	<u>"Modcon Precast Concrete Solutions" precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u>			
1	310 x 40mm Thick overall copings, type 0138, with drip grooves in bottom along both edges	m	247	
	Carried Forward to Summary of Section No. 2			
	Section No. 2			
	Bill No. 4			
	Precast Concrete			

R

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Item No		Quantity	Rate	Amount
	<u>SECTION No. 2</u>			
	<u>BILL No. 5</u>			
	<u>MASONRY</u>			
	<u>NOTE:</u>			
	Tenderers are advised to study the Model Preambles for Trades 2008 before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>BRICKWORK</u>			
	<u>Bricks</u>			
	Corobrik® 14MPa nominal compressive strength NFX loadbearing Imperial foundation brick, size 222 x 106 x 73mm, manufactured in accordance with SANS 227:2007, laid in foundations walls bedded and jointed in Class II mortar			
	<u>Face bricks</u>			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	<u>Pointing</u>			
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
	<u>BRICKWORK</u>			
	<u>Brickwork of NFP clay bricks in class II mortar</u>			
1	Mass brickwork,steps	m3	1	
2	110mm Brick walls	m2	737	
3	220mm Brick walls	m2	2,737	
	Carried to Collection			R
	Section No. 2			
	Bill No. 5			
	Masonry			

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

4	330mm Brick walls	m2	12	
	<u>Brickwork of NFX bricks (14MPa nominal compressive strength) in class II mortar in loadbearing walls, etc</u>			
5	220mm Brick walls	m2	101	
	<u>BRICKWORK SUNDRIES</u>			
	<u>Vertical movement joints between vertical concrete and brick surfaces</u>			
6	12mm Bitumen impregnated fibre board built in vertically through brick walls not exceeding 300mm wide	m	781	
	<u>2,5mm Brickwork reinforcement</u>			
7	75mm Wide reinforcement built in horizontally	m	1,953	
8	150mm Wide reinforcement built in horizontally	m	7,521	
9	225mm Wide reinforcement built in horizontally	m	32	
	<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>			
10	110 x 75mm Lintels in lengths not exceeding 3m	m	715	
11	110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	20	
	<u>Turning pieces to lintels etc</u>			
12	220mm Wide turning pieces	m	221	
	<u>Galvanised hoop iron cramps, ties, etc</u>			
13	30 x 1,6mm Wall tie 500mm long with one end shot pinned to concrete and other end built into brickwork	No	2,295	
	<u>NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS</u>			
	<u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc</u>			
14	15 x 150mm Wide sills set flat and slightly projecting	m	169	
	Carried to Collection			R
Section No. 2				
Bill No. 5				
Masonry				

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

[illegible]

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>"abe Super laycryl" flexible bitumen/acrylic waterproofing system comprising primer coat (mix ratio consisting of 1 part "abe Super laycryl" to 1 part clean water), one layer pre-cut "abe membrane" fully saturated in "abe Super laycryl" slurry and three full coats "abe Super laycryl" applied with a brush, all in accordance with manufacturer's details and specifications</u>				
4	On parapet walls	m2	395		
	<u>One layer 4mm "Derbigum SP4" fully bonded waterproofing followed by a suitable layer non-woven water permeable geotextile filter fabric, all applied in strict accordance with the manufacturer's specifications under a ten year written guarantee</u>				
5	On concrete roofs and beams	m2	2,592		
	<u>4mm "Derbigum SP4" fully bonded waterproofing applied in strict accordance with the manufacturer's specifications under a ten year written guarantee</u>				
6	On turn-ups and turn-downs exceeding 300mm girth	m2	130		
7	On bottoms and sides of box gutters	m2	24		
	<u>One layer Derbigum CG4 on one layer Derbigum CG3, laid staggered, with side laps of 75mm and end laps of 100mm, sealed to primed blinding layer by "torch-fusion", followed by one layer of standard 16mm thick pressed wood, laid loose on waterproofing as protection layer</u>				
8	Horizontal surfaces in lift pits	m2	15		
	<u>One layer of Derbigum CG4 on one layer Derbigum CG3 waterproofing membrane, with 100mm side laps and 150mm end laps, sealed to primed surface by "torch-fusion", with and including Delta MS8 dimpled drainage layer</u>				
9	On lift shaft walls	m2	32		
	<u>One layer Derbigum CG4 waterproofing membrane, with 100mm side laps and 150mm end laps, sealed to primed surfaces by means of 'torch-fusion', with and including Delta MS8 dimpled drainage layer.</u>				
10	On retaining walls	m2	39		
Carried to Collection				R	
Section No. 2					
Bill No. 6					
Waterproofing					

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>"ABE Flexothane CTW" polyurethane sealing compound including backing cord, bond breaker, primer, etc</u>				
17	10 x 15mm In isolation/expansion joints in floors including raking out expansion joint filler as necessary	m	57		
18	12 x 15mm In vertical expansion joints including raking out expansion joint filler as necessary	m	1,566		
19	20 x 15mm In isolation/expansion joints in floors including raking out expansion joint filler as necessary	m	43		
20	20 x 15mm In vertical expansion joints including raking out expansion joint filler as necessary	m	5		
21	20 x 10mm In expansion joints in soffits including raking out expansion joint filler as necessary	m	19		
	<u>SUNDRIES</u>				
	<u>13mm Dolomite stone chips evenly spread</u>				
22	25mm Thick to flat concrete roofs with waterproofing	m2	2,565		
Carried to Collection					R
Section No. 2					
Bill No. 6					
Waterproofing					

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

<u>ROOF AND WALL INSULATION</u>			
<u>"Sisalation FR 405" light industrial grade aluminium foil based insulation</u>			
6	Double sided aluminium foil insulation laid taut over purlins (at approximately 1200mm centres) and fixed concurrent with roof covering including PVC coated straining wires at 383mm centres and under side laps; with 100mm side and end laps sealed with 24mm GDA double sided tape	m2	632
<u>ALUMINIUM COMPOSITE PANEL CLADDING</u>			
<u>"Hunter Douglas Architectural Products"(Marinda de Beer - Tel No 071 675 0644)</u>			
<u>"HULABOND" aluminium composite panel with Metallic Grey 07 or Silver 7163 PVDF Kynar 500 paint coating, face fixed to aluminium sub-structure with hat sections covering joints. The whole to be designed and installed by an approved specialist, all in accordance with the manufacturer's instructions.</u>			
7	Side cladding to roofs	m2	88
8	Eaves soffit cladding	m2	73
Carried to Collection			
Section No. 2			
Bill No. 7			
Roof Coverings			

R

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

[illegible]

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Item No		Quantity	Rate	Amount
	<u>SECTION No. 2</u>			
	<u>BILL No. 8</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>NOTE:</u>			
	Tenderers are advised to study the Model Preambles for Trades 2008 before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere			
	<u>Joinery</u>			
	Descriptions of frames shall be deemed to include frames, transomes, rails, etc			
	Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts			
	<u>ROOFS ETC</u>			
	<u>EAVES, VERGES, ETC</u>			
	<u>High density plain fibre-cement flat sheets</u>			
1	9mm Eaves soffit covering fixed to steel trusses	m2	73	
2	15 x 850mm Fascias and barge boards, including galvanised steel H-profile joiners	m	103	
	Carried to Collection			R
	Section No. 2			
	Bill No. 8			
	Carpentry and Joinery			

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

<u>SKIRTINGS, DADO RAILS, ETC.</u>				
<u>Profiled supawood</u>				
3	22 x 150mm Skirting nailed to walls with heads of nails punched and filled	m	376	
<u>DOORS ETC</u>				
<u>Semi-solid flush panel doors with commercial veneer, hung to pressed steel door frame with and including one pair of 100mm steel hinges, etc</u>				
4	40mm Door 762 x 2 032mm high (D11)	No	10	
5	40mm Door 864 x 2 032mm high (D4,D5,D9,D11,D13)	No	68	
<u>Solid Meranti timber doors, hung to steel door frame with and including three 100mm stainless steel hinges including additional studding, trimming, etc. (Steel door frame, lockset and handles elsewhere specified).</u>				
6	40mm Door 813 x 2 032mm high (D12)	No	26	
7	40mm Door 930 x 2 032mm high (D14)	No	9	
8	40mm x 1 800 x 2,032m Double door in two equal panels (D6)	No	1	
<u>"Bitcon Industries"</u>				
<u>Class B fire doors finished in Masonite veneer clad one side with galvanized steel sheeting and hung to and including 1,6mm galvanized pressed steel frame suitable for one brick wall with and including two heavy duty brass hinges per leaf</u>				
Note :				
Doors and frames to have adequate provision for the fitting of standard lock and closer				
9	Single door 813 x 2032m high (D7,D8)	No	12	
Carried to Collection				R
Section No. 2				
Bill No. 8				
Carpentry and Joinery				

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

[illegible]

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings

Unless otherwise described bulkheads shall be deemed to be horizontal along the length

Steel components

All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121

SUSPENDED CEILINGS

SUPPLEMENTARY PREAMBLES

Proprietary suspended ceilings

Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations

Flush plastered gypsum plasterboard suspended ceilings

Ceilings shall comprise 9,5mm gypsum plasterboard boards screwed to and including screw-up suspension grid consisting of main tees at 1 200mm centres and galvanised steel capped cross tees at 400mm centres and with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface

The grid shall be suspended by means of galvanised steel L-section hangers at suitable centres, securely shot-pinned or screwed to concrete, steel or wood

- | | |
|---|---|
| 1 | Ceilings suspended exceeding 1m and not exceeding 2m below concrete soffits |
|---|---|

m2

300

Carried to Collection

R

Section No. 2

Bill No. 9

Ceilings, Partitions and Access Flooring

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>Flush plastered gypsum plasterboard suspended bulkheads</u> Bulkheads shall comprise galvanised steel studding of 63,5mm top and bottom tracks with vertical studs at maximum 400mm centres, pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with plasterboard screwed to studding with drywall screws at maximum 300mm centres. Boards shall be butt jointed and finished with tape and jointing compound and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer Descriptions shall be deemed to include any additional studs at ends and intersections, corner beads, cornices at junctions with ceilings, jointing compound, tape, etc <u>12,5mm Gyproc RhinoCeil Premiere J Rhinoboard on "Donn" T37K Flush Plastered Grid consisting of T37S main tees at 1200mm centers and T32S tees at 600mm centres with capping of galvanised steel tapered edge and gypsum board screwed to underside of grid with drywall screws at 250mm centres</u>				
2	Vertical portion of bulkhead	m2	91		
3	Horizontal portion of bulkhead	m2	36		
4	Intermediate rectangular bulkheads 250mm wide x 945mm high, suspended not exceeding 1m below concrete soffits	m	554		
5	Intermediate rectangular bulkheads 250mm wide x 1330mm high, suspended not exceeding 1m below concrete soffits	m	35		
Carried to Collection					R
Section No. 2					
Bill No. 9					
Ceilings, Partitions and Access Flooring					

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

10	<u>"Isotherm" Non-combustible Thermal insulation of a density of not less than 11.5kg/m³ bonded with an inert thermo-setting resin</u>	m ²	521	R
	<u>PARTITIONS</u>			
	<u>FIXED PARTITIONS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Partitions consisting of 63,5mm "Ultra Drywall" steel studs inserted at 600mm centres into 63,5mm "Ultrasteel Drywall" steel track at top and bottom clad on both sides as described, including additional studs as necessary at abutments, ends, etc. Boards shall be fixed in strict accordance with the manufacturer's instructions and all joints shall be taped and jointed Unless otherwise described rates for partitions shall be deemed to include for standard flat section aluminium skirtings on both sides Wall paper and/or paint and varnish finishes are given elsewhere <u>Note:</u> Finished floor level to ceiling height is generally 2 600mm high and to underside of concrete slab 3 545mm high.(945mm above ceiling height)			
	Carried to Collection			
	Section No. 2 Bill No. 9 Ceilings, Partitions and Access Flooring			

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>Aluglass Bautech Variflex VX164 mobile acoustic (operable wall) partition, size 135 x 2,600mm high to suit structural opening size 135 x 3,800mm high, comprising 164mm thick tongued and grooved acoustically decoupled 52dB Rw (56dB STC) rated panels with Walnut veneer finish, with mechanically retractable top and bottom seals and vertical seals formed of aluminium extrusions with lip seals and magnetic strips, panels suspended at two roller trolleys per panel on track with ball bearing and/or thrust rollers with track bolted to suspension plates in turn bolted to concrete support structure and 1200mm high acoustic baffle/bulkhead to specified 52dB STC class of the panels fitted to and above track in ceiling void. Panels are to park U-parking with panels stacking to two sides</u>				
17	Acoustic foldaway door 5 538 x 3 825mm high in four equal panels (ST D1)	No	8		
18	Acoustic foldaway door 5 538 x 3 825mm high in four equal panels with opening for double door (Door D1 measured elsewhere) (ST D2)	No	1		
<u>TOILET CUBICLES</u>					
	<u>Cubical Solutions® Cube Exclusive toilet cubicle comprising 16mm colour Charcoal melamine faced particle board with moisture resistant additives, with partition size 1800 x 1,830mm high, wall panel size 125 x 1,830mm high and mid panel size 250 x 1,830mm high with partitions supported by stainless steel overhead bracing with 60 x 150mm high grade 304 stainless steel hanging clamp (Code: CSSH01/304/13), 48mm diameter x 170mm high grade 304 stainless steel adjustable supporting feet plugged and screwed to floor and fixed into position by means of grade 304 stainless steel wall mounting brackets plugged and screwed to walls.</u>				
19	Partition 1 800mm wide x 1 920mm high	No	50		
	<u>Door including standard ironmongery, comprising grade 316 grade 316 indicator bolts (Code: CSTIN01/316), grade 304 stainless steel hat and coat hooks with buffer stopper (Code: CSSH&C02/304)</u>				
20	Door 762mm wide x 1 780mm high	No	50		
Carried to Collection					R
Section No. 2					
Bill No. 9					
Ceilings, Partitions and Access Flooring					

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>Sundries</u>				
21	Mid stile 250mm wide x 1 920mm high	No	60		
22	End stile 125mm wide x 1 920mm high	No	20		
	<u>ACCESS FLOORING</u>				
	<u>"Donn Snap-Loc" access flooring</u>				
23	600 x 600mm Modular and interchangeable "Solid feel 30" board panel access flooring including stringers, pedestals and panels with cementitious filling, finished with factory bonded 1,3mm thick plastic laminate (access flooring to finish 600mm above concrete sub-floor)	m2	111		
24	Junctions against walls and columns	m	12		
25	Hole for 100mm diameter pipe through floor panel including sealing	No	16		
26	600 x 300mm Opening through floor panel for air conditioning grille including sealing	No	9		
	<u>Sundries</u>				
27	Vacuum cleaning the floor void after installation of services	m2	111		
28	Fire barrier 340mm high between concrete sub-floor and floor panels (1 hour fire rating)	m	81		
29	Double suction-type panel lifting device	No	9		
30	Spare floor panel finished with factory bonded 1,3mm thick plastic laminate, handed to the employer	No	24		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 9				
	Ceilings, Partitions and Access Flooring				

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

[illegible]

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Item No		Quantity	Rate	Amount
	<u>SECTION No. 2</u>			
	<u>BILL No. 10</u>			
	<u>FLOOR COVERINGS, WALL LININGS, ETC</u>			
	<u>NOTE:</u>			
	Tenderers are advised to study the Model Preambles for Trades 2008 before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Fixing</u>			
	Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc			
	<u>FLOOR COVERINGS</u>			
	<u>Belgotex floors® 10 Year Full Commercial Warranty (20 Year Residential warranty) Nottingham vinyl plank size 1 219,2 x 182,88 x 4mm thick colour Hawthorn, fully bonded to approved substrate in staggered pattern in accordance with the Belgotex LVT installation TACBAC system expansion gaps of 8-12mm from walls and any vertical structures to be maintained during installation on suitably prepared subfloor (elsewhere specified) with a Tramex moisture meter reading showing a maximum moisture content of 3%.</u>			
1	On screeded floors	m2	379	
	<u>Vinyl plank flooring with a P.C. amount of R 300.00 (Three Hundred Rand) per m2 excluding VAT, delivered and installed by a firm of specialists</u>			
2	On screeded floors	m2	379	Rate Only
	Carried to Collection		R	
	Section No. 2			
	Bill No. 10			
	Floor Coverings, Wall Linings, etc			

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Item No	Quantity	Rate	Amount
<u>SECTION No. 2</u>			
<u>BILL No. 11</u>			
<u>IRONMONGERY</u>			
<u>NOTE:</u>			
Tenderers are advised to study the Model Preambles for Trades 2008 before pricing this bill			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Proprietary items</u>			
Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
On request returnable samples are to be provided to the principal agent for consideration			
Carried to Collection			R
Section No. 2			
Bill No. 11			
Ironmongery			

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

Finishes to ironmongery

Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:

BS Satin bronze lacquered
 CH Chromium plated
 SC Satin chromium plated
 SE Silver enamelled
 GE Grey enamelled
 AN Anodised natural
 AS Anodised silver
 AB Anodised bronze
 AG Anodised gold
 ABL Anodised black
 PB Polished brass
 PL Polished and lacquered
 PT Epoxy coated
 SD Sanded

Fixing of ironmongery

Where ironmongery is described as plugged, screwed, fixed or secured to walls, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish

Washroom Equipment : Grade 304 stainless steel Three roll toilet roll holder (Code: CSDHTRH-3/304).

Supply of ironmongery

NOTE : All Ironmongery to be supplied by ASSA ABLOY (Contact Giovanni Cantarello - Tel 083 654 0405)

HINGES, BOLTS, ETC

"Union" or similar and approved

1	100mm Stainless steel hinge	No	1,101
2	150mm SP(1379)ALFB Aluminuim flushbolt	No	42
3	150mm "SP(1379)ALFB" Aluminuim flushbolt	No	8

Carried to Collection

Section No. 2
 Bill No. 11
 Ironmongery

R

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

4	300mm "AL8208-300AS" 300mm Aluminium lever flush bolt	No	2		
5	"8352-100FLSS" Flush ball bearing hinge (304 Stainless steel)	No	6		
6	"ARC1182SS" Adjustable roller catches	No	6		
<u>HANDLES</u>					
<u>"Union" or similar and approved</u>					
7	"6503-05SS" Narrow stile furniture profile doorhandle	No	157		
8	"SS6SG01-44-05SS" Seagull stainless steels lever handle on plate	No	52		
9	"SS5D152X304-06SS" 22mm Diameter tubular stainless steel Dove PH bolted on back plate	No	11		
10	"SS5D152X3041-05" 22mm Diameter tubular stainless steel Dove PH bolted on 152 x 304mm back plate	No	26		
11	"SS5D152X304R-05" 22mm Diameter tubular stainless steel Dove PH bolted on 152 x 304mm back plate	No	26		
12	"SS5515-150BTSS" 150mm stainless steel pull handle	No	65		
13	"5213BBSS" 350mm Pull handle back to back	No	24		
14	"5215BBSS" 350mm Pull handle back to back	No	23		
<u>LOCKS</u>					
<u>"Union" or similar and approved</u>					
15	"Q35X85MM-SS" Spring latch and deadbolt lock	No	157		
16	"QD35X85MM-SS" 35Mmm Deadbolt lock	No	42		
17	"2X18SCGMK" Cylinder profile GMK stainless cylinder	No	213		
18	"2X19SCGMK" Euro Profile Knob Cylinder Gmk	No	36		
19	"2X20SCGMK" Cylinder profile GMK stainless cylinder	No	30		
Carried to Collection				R	
Section No. 2					
Bill No. 11					
Ironmongery					

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>"Exidor" or similar and approved</u>				
37	"J-882T-SIL" Single Pbolt Tbar 900mm	No	3		
38	294 (B2299) Single silver panic bolt	No	3		
	<u>PUSH PLATES AND KICK PLATES</u>				
	<u>0.9mm Thick satin finished stainless steel plates countersunk screwed along edges at not exceeding 200mm centres</u>				
39	"SS5023-06-304W" 1,2mm x 152 x 304mm Brushed stainless steel (Grade 304) push plate with no sharp corners or edges, 4 times countersunk drilled for back to back screw fixing, blank with no piercing	No	65		
40	1,2mm x 200 x 780mm Brushed stainless steel (Grade 304) kick plate to wrap around bottom edge of door drilled and countersunk for screw fixing	No	22		
41	"SS5089" 1,2mm x 200 x 1 000mm Brushed stainless steel (Grade 304) kick plate to wrap around bottom edge of door drilled and countersunk for screw fixing	No	30		
42	"SS5089 - 900W" 1,2mm x 900 x 800mm Brushed stainless steel (Grade 304) kick plate to wrap around bottom edge of door drilled and countersunk for screw fixing	No	4		
	<u>DOOR CLOSERS</u>				
43	"DC 300SCDA" Cam Action R&P door closer ENI 1-4 Sil delayed action	No	6		
44	"DC 500" Cam Action door closer ENI 1-4 SIL standard arm	No	73		
45	"DC 500" Cam Action door closer to be fitted to active leaf DCA104-EV1	No	3		
46	" DC477DAHO FS EN2-4 DA HO" Cam Action door closer	No	2		
47	"FD461-DC500" Cam motion mech coordinator DD	No	6		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 11				
	Ironmongery				

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

SECURITY ACCESS CONTROL

48	"7AHBAT" 12 VDC battery	No	33
49	"AC-G43" Keypad reader/controller combo	No	33
50	"BGLASS - G" Green break glass box	No	33
51	"EDS-YP902" Power supply 3 Amp 12V	No	33

LETTERS, NAMEPLATES, ETC

Fixing of internal nameboards to walls

52	Take delivery of 150 x 80mm aluminium nameboard unit, store in safe place and fix against plastered and painted brick wall or painted partitioning with epoxy adhesive, in specific position as indicated by client	No	251
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Indicator plates countersunk holed for and screwed to door or brickwork with chromium plated dome-headed screws

53	"SS5066-06SSE05" 3mm Thick stainless steel plate with "FIRE HOSE" symbol	No	15
54	"SS5066-06SSE06" 3mm Thick stainless steel plate with "FIRE EXTINGUISHER" symbol	No	41
55	"SS5066-06SSE07" 3mm Thick stainless steel plate with "STAIR DIRECTION" symbol	No	6
56	"SS5066-06SSE10" 3mm Thick stainless steel plate with "MALE INDICATOR" symbol	No	10
57	"SS5066-06SSE11" 3mm Thick stainless steel plate with "FEMALE INDICATOR" symbol	No	10
58	"SS5066-06SSE14" 3mm Thick stainless steel plate with "PARAPLEGIC INDICATOR" symbol	No	6
59	"SS5066-06SSE15" 3mm Thick stainless steel plate with "ESCAPE ROUTE SIGN LH" symbol	No	12
60	"SS5066-06SSE16" 3mm Thick stainless steel plate with "ESCAPE ROUTE SIGN RH" symbol	No	12

Carried to Collection

Section No. 2
Bill No. 11
Ironmongery

R

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

BATHROOM FITTINGS

Manufactured by "Franke" or similar and approved

61	"Serra" 800ml brushed stainless steel finish spray liquid soap dispenser fixed to tiled wall	No	22
62	"Serra" SE brushed stainless steel finish three roll toilet roll holder Code CSDHTRH-3/304 , fixed to tiled wall	No	56
63	"Serra" model 2200 CA brushed stainless steel finish hand dryer, fixed to tiled wall	No	22
64	"Serra" Serramatic Range brushed stainless steel finish bin, fixed to tiled wall	No	22

GRAB RAILS

Brushed stainless steel

65	32mm Diameter "Chairman Industries" (code SR-1) rear rail fixed to tiled wall	No	6
66	32mm Diameter "Chairman Industries" (code DL-2) dog leg side rail fixed to tiled wall	No	6

Carried to Collection

Section No. 2
 Bill No. 11
 Ironmongery

R

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>Purlins, girts, etc bolted to steel</u>				
9	200 x 75 x 20 x 2,5mm Lipped channel section purlins	t	4.08		
10	80 x 60 x 8mm Angle section cleats	t	0.14		
	<u>STEEL BRACING, ETC</u>				
	<u>Welded bracing etc bolted to steel</u>				
11	70 x 70 x 6mm Angle section bracing	t	0.65		
12	50 x 50 x 3mm Angle section sag bracing	t	0.32		
	<u>STEEL GUTTERS AND RAINWATER PIPES</u>				
	<u>3mm Welded plate gutters</u>				
13	Box gutters 600mm girth, three times bent along length including necessary collared and sealed expansion joints	t	0.57		
	<u>4,5mm Welded plate rainwater pipes, including holderbats, brackets, etc</u>				
14	225 x 225mm Rainwater downpipes	t	0.18		
	<u>GALVANISED STEEL FLOORS, STAIRS, ETC</u>				
	<u>Welded and bolted suspended floors to service shaft</u>				
15	60 x 60 x 6mm Angle section bearers	t	0.51		
	<u>"Rectagrid" type RS40 floor grating with 30 x 4.5mm bearer bars, fixed to steel with standard fixing clips</u>				
16	Floor grating of unbanded panels in 1 000mm widths and suitable lengths	m2	23.91		
	<u>BOLTS, FASTENERS, ETC</u>				
17	High tensile steel bolts including nuts and washers (Grade 8.8)	kg	1,378		
18	16mm Diameter chemical anchor	No	139		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 12				
	Structural Steelwork				

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

CAST-IN ITEMS

- 19 M24 holding down bolt 521mm long, one end fitted with 80 x 80 x 14mm thick baseplate and other end threaded for a length of 125 mm and fitted with nut and washer, cast into top of concrete stub column

No

44

PAINTING

Prepare and apply Carboclad 900 ZA primer to 40 micron dry film thickness, one coat general purpose undercoat to 40 micron dry film thickness and one enamel finishing coat to 50 micron dry film thickness

- 20 On structural steel columns, beams, trusses, etc

t

45.94

Carried to Collection

R

Section No. 2
 Bill No. 12
 Structural Steelwork

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

[illegible]

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Item No		Quantity	Rate	Amount
	<u>SECTION No. 2</u>			
	<u>BILL No. 13</u>			
	<u>METALWORK</u>			
	<u>NOTE:</u>			
	Tenderers are advised to study the Model Preambles for Trades 2008 before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions of bolts, anchors, etc</u>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres			
	<u>MILD STEEL HANDRAILS - FIRE ESCAPES,ETC</u>			
	<u>Welded handrails to walls, etc</u>			
1	38mm External diameter continuous pipe rails	m	89	
2	Extra over for flat closed end	No	30	
3	Bracket of 13mm diameter bar 150mm long, with one end welded to rail and other end embedded 100mm deep in brick wall with and including "Rockset" non-shrinking grout	No	103	
4	38mm Diameter x 3mm thick flange	No	103	
	Carried to Collection			R
	Section No. 2			
	Bill No. 13			
	Metalwork			

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

**MILD STEEL BALUSTRADES - FIRE
ESCAPES, ETC**

Welded mild steel balustrades and handrails to stairs

5	Horizontal balustrades 1 100mm high, with 50mm external diameter x 3mm thick continuous mild steel pipe handrail, on and including 10 mm diameter mild steel pin 50mm long, welded to top of stanchion and bottom of handrail, complete with 25 x 25 x 2.5mm mild steel stanchions 1 050mm long at 600mm centres, with tops of stanchions close with and including 5mm thick end cap welded on, with 50mm diameter x 100mm deep core drilled hole into concrete and fix stanchion into hole with epoxy, complete with 50 x 50 x 5mm mild steel cover plate holed for and welded to stanchion, with and including six 10mm diameter continuous mild steel rails threaded through and including holes in stanchions	m	13
6	Raking balustrades 1 100mm high, with 50mm external diameter x 3mm thick continuous mild steel pipe handrail, on and including 10 mm diameter mild steel pin 50mm long, welded to top of stanchion and bottom of handrail, complete with 25 x 25 x 2.5mm mild steel stanchions 1 050mm long at 600mm centres, with tops of stanchions close with and including 5mm thick end cap welded on, with 50mm diameter x 100mm deep core drilled hole into concrete and fix stanchion into hole with epoxy, complete with 50 x 50 x 5mm mild steel cover plate holed for and welded to stanchion, with and including six 10mm diameter continuous mild steel rails threaded through and including holes in stanchions	m	53
7	Extra over for short radius bend	No	15
8	Extra over for 90 degree ramp bend	No	14
9	Extra over for end closure to horizontal balustrade	No	12
10	Extra over for end closure to raking balustrade	No	7

**GLAZED STAINLESS STEEL BALUSTRADES
(MAIN STAIRCASE)**

Carried to Collection

Section No. 2
Bill No. 13
Metalwork

R

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Carried to Collection

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Item No		Quantity	Rate	Amount
	<u>SECTION No. 2</u>			
	<u>BILL No. 14</u>			
	<u>ALUMINIUM WORK</u>			
	<u>NOTE:</u>			
	Tenderers are advised to study the Model Preambles for Trades 2008 before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Aluminium doors, windows, etc</u>			
	Doors and windows shall comply with AAAMSA design criteria			
	Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings			
	Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed			
	For purpose made windows and doors, refer to drawings annexed to these bills of quantities			
	The following certificates shall be provided prior to commencement of site work:			
	1 A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product			
	2 A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively			
	Carried to Collection		R	
	Section No. 2			
	Bill No. 14			
	Aluminium work			

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

3	A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process				
4	A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked				
5	A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years				
All glazing in windows will be in accordance with SANS 10137					
NOTE :					
Tenderers are referred to the drawings for windows and doors that are only referenced to numbers for pricing purposes					
<u>ALUMINIUM WINDOWS, DOORS, ETC</u>					
<u>ALUMINIUM CASEMENT WINDOWS</u>					
<u>Charcoal colour epoxy powder coated casement window units, complete with subframes, ironmongery, 4mm tinted reflective sheet glass, sealing, etc and fixing to brickwork or concrete</u>					
<u>Note</u>					
Refer to attached window schedules for details of windows					
1	Purpose made window, 300 x 300mm high (W1)	No	37		
2	Purpose made window, 300 x 600mm high (W2,W4)	No	48		
Carried to Collection				R	
Section No. 2					
Bill No. 14					
Aluminium work					

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

3	Purpose made window, 300 x 900mm high (W3, W7)	No	60		
4	Purpose made window, 300 x 1 100mm high (W9)	No	8		
5	Purpose made window, 600 x 600mm high (W5)	No	27		
6	Purpose made window, 600 x 900mm high (W6)	No	29		
7	Purpose made window, 900 x 900mm high (W17)	No	17		
	<u>Charcoal colour epoxy powder coated casement window units, complete with subframes, ironmongery, 4mm obscure glass, sealing, etc and fixing to brickwork or concrete (see drawing SA - 7793/SAF 103/SH 1 of 1)</u>				
8	Purpose made window, 600 x 600mm high top hung opening section (W11)	No	50		
	<u>Charcoal colour epoxy powder coated casement window units, complete with subframes, ironmongery, 28mm tinted bullet proof glass, sealing, etc and fixing to brickwork or concrete</u>				
9	Purpose made window, 2 000 x 1 200mm high overall, with top and bottom sections (W10)	No	26		
	<u>ALUMINIUM DOOR FRAMES</u>				
	<i>Barrel bolts, locksets, etc measured elsewhere</i> -----				
	<u>Charcoal colour epoxy powder coated aluminium door frame plugged and secret fixed to brickwork or concrete</u>				
10	Frame for door 915 x 2 125mm high (D12)	No	26		
	<u>ALUMINIUM DOORS</u>				
	<u>Charcoal colour epoxy powder coated aluminium shopfronts and doors manufactured from "Hulamin" NuKlip system glazed with 6,38mm clear laminated safety glass, complete with sub frames, ironmongery, glass, sealing, polysulphide pointing, etc. plugged and secret fixed to brickwork or concrete</u>				
11	Single door size 897 x 2 032mm high with one Dorma" DPH215 handle,glazing, etc. (D2)	No	154		
	Carried to Collection				R
	Section No. 2				
	Bill No. 14				
	Aluminium work				

Carried to Collection

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL No. 15</u>			
	<u>PLASTERING</u>			
	<u>NOTE:</u>			
	Tenderers are advised to study the Model Preambles for Trades 2008 before pricing this bill			
	<u>SCREEDS</u>			
	<u>Screeds wood floated, on concrete</u>			
1	22,5mm Thick on floors and landings for tiling	m2	1,849	
2	25mm Thick on floors and landings for carpets, vinyl, etc	m2	5,813	
3	25mm Thick on treads and risers of stairs	m2	7	
4	Average 60mm thick on floors with upper surface to falls	m2		Rate Only
5	Average 60mm thick on floors with upper surface to falls and currents	m2	101	
6	Average 100mm thick on roofs with upper surface to falls and currents	m2	2,491	
7	50 x 50mm Triangular fillets against walls, kerbs, etc	m	319	
	<u>SELF LEVELLING SCREED TO CONCRETE</u>			
	<u>Prepare and apply "a.b.e. Construction Chemicals Pale Grey G62 abeflo" self levelling, solvent free epoxy flooring system comprising resin hardener, aggregates, pigments and necessary primers (abecote WD337), all in accordance with manufacturer's details and instructions</u>			
8	3 to 5mm Thick on floors	m2	5,813	
	Carried to Collection			R
	Section No. 2			
	Bill No. 15			
	Plastering			

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

	<u>GRANOLITHIC</u>				
	<u>Untinted granolithic, on concrete</u>				
9	30mm Thick on floors and landings	m2	53		
	<u>INTERNAL PLASTER</u>				
	<u>Cement plaster wood floated, on brickwork</u>				
10	On walls	m2	3,723		
11	On narrow widths	m2	113		
	<u>Cement plaster wood floated, on concrete</u>				
12	On walls	m2	108		
13	On projecting and isolated columns	m2	1,616		
14	On ceilings and beams	m2	833		
15	On raking soffits of stairs	m2	51		
	<u>EXTERNAL PLASTER</u>				
	<u>Rough-cast plaster, on brickwork</u>				
16	On walls	m2	1,090		
17	On narrow widths	m2	43		
	<u>Cement plaster wood floated, on concrete</u>				
18	On walls	m2	798		
19	On projecting and isolated columns	m2	104		
20	On ceilings and beams	m2	211		
	<u>SKIM PLASTER</u>				
	<u>One coat "Rhinolite" skim plaster</u>				
21	On plastered walls and columns	m2	2,585		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 15				
	Plastering				

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

22	On plastered ceilings and beams	m2	1,697	
23	On plasterboard bulkheads	m2	694	
24	On plasterboard partitions	m2	5,934	
<u>SPECIALISED PLASTER TYPE WALL COATINGS</u> <u>"Marmoran Caledonplast 2 in 1" decorative plaster coating (Marmoran Sample Panel Reference Number : S/S/CE0922 (ZITA)) with 24mm taped joints applied by a "Marmoran" licenced applicator in strict accordance with the manufacturer's full details and specifications including all preparation work, primers, undercoats, etc</u>				
25	On plastered walls	m2		Rate Only
26	On narrow widths	m2		Rate Only
Carried to Collection				R
Section No. 2 Bill No. 15 Plastering				

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Item No		Quantity	Rate	Amount
	<u>SECTION No. 2</u>			
	<u>BILL No. 16</u>			
	<u>TILING</u>			
	<u>NOTE:</u>			
	Tenderers are advised to study the Model Preambles for Trades 2008 before pricing this bill			
	<u>WALL TILING</u>			
	<u>Porcelain tiles (P.C. R 200,00/m2 excluding VAT) fixed with Tal professional adhesive to plaster (elsewhere), including joints flush pointed with approved grouting</u>			
1	On walls	m2	1,002	
2	On narrow widths	m2	32	
	<u>Sundries</u>			
3	Fair exposed cutting around pipe not exceeding 100mm diameter	No	80	
4	Ditto, exceeding 100mm diameter and not exceeding 200mm diameter	No	56	
	<u>FLOOR TILING</u>			
	<u>Union Tiles 1ARTPEK60RC109600 porcelain tiles (Code: 1ARTPEK60RC109600), size 600 x 600mm fixed to internal floor screed with TAL tile adhesive (elsewhere specified) mixed with TAL bonding liquid in lieu of water with joints continuous in both directions and grouted with TAL tile grout (elsewhere specified), excess grout on the surface to be cleaned with water as work proceeds</u>			
5	On floors and landings	m2	1,849	
6	On narrow widths	m2	10	
	Carried to Collection			
	Section No. 2			
	Bill No. 16			
	Tiling			

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

7	On risers 170mm high of cut tiles	m	162		
8	On treads 300mm wide of cut tiles	m	162		
9	Skirting 75mm high formed of cut tiles	m	650		
10	Sloping skirting 270mm high extreme including stepped cutting over treads and risers	m	80		
<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>					
<u>Aluminium dividing strips</u>					
11	30 x 30 x 2mm L-section aluminium dividing strips between differing floor finishes	m	242		
<u>"M-Trim" or similar and approved</u>					
12	12mm High mill finish aluminium square edge trim (Code : ASQE120.MF), bedded in tile adhesive to edges of cills, corners, etc while tiles are laid.	m	260		
13	46 x 27mm High (Code : ARN460) mill finish aluminium retro-fit stair nosing on ceramic tile stair tread covering, plugged and countersunk screwed into cement screed with stainless steel screws.	m	162		
Carried to Collection				R	
Section No. 2 Bill No. 16 Tiling					

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Sealing of edges

Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone

uPVC pipes and fittings

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

uPVC pressure pipes and fittings

Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings

Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints

High density polyethylene (HDPE) pipes and fittings

Pipes shall be type IV and of the class specified with "Plasson" or "Alprene" compression fittings

Copper pipes

Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016

Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition

Carried to Collection

Section No. 2
Bill No. 17
Plumbing and Drainage

R

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>Fixing of pipes</u>				
	Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level				
	<u>RAINWATER DISPOSAL</u>				
	<u>Galvanised steel pipes with screwed and socketed joints</u>				
1	40mm Weep pipe 250mm long with splay-cut end, built through brickwork	No	4		
	<u>uPVC rainwater pipes</u>				
2	110mm Diameter rainwater pipes built into brickwork or cast in position	m	47		
	<u>Extra over rainwater pipe for fittings</u>				
3	110mm Bend	No	4		
4	110mm Access bend	No	4		
	<u>"Saint Gobain Pipelines South Africa" or similar and approved Fullbore cast iron outlets</u>				
5	205mm 180° Vertical roof outlet with dome grating and connection to 110mm PVC pipes	No	4		
	<u>SANITARY FITTINGS</u>				
	<u>"Franke" stainless steel</u>				
6	1 500 x 535mm wide Code 313880 "Trendline" polished stainless steel double centre bowl inset sink with two 343 x 410 x 146mm deep bowls, fitted onto cupboard (elsewhere specified) including 90mm waste fitting (code: 302021) and Spazi F/2 plumbing kit (code: 301251).	No	10		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 17				
	Plumbing and Drainage				

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>"Vaal" bathroom equipment</u>				
7	630 x 500mm "Concorde 630" white vitreous china basin with three semi punched tap holes , integrated overflow and chain stay, fix to wall with 100 fixing bolt set fixation (Code 8448Z0)	No	6		
8	560 x 390 x 180mm "Vaal Concorde Slimline" white vitreous china rectangular self-rimming drop-in basin with integrated overflow (code VAA-704700), 32mm chromium plated basin waste with anti theft plug, and mounting kit fixed in position in vanity slab (vanity elsewhere) complete	No	40		
9	"Refine BTW" back-to-wall white vitreous china toilet pan (Code VAA-431200WH) with quality thermoset soft close seat and floor brackets	No	56		
10	565 x 275 x 310mm "Sweetpea BI" white vitreous china wall mounted top inlet urinal (code : 705127) and top inlet fittings (code : 7054Z1) including 38mm chromium plated domical grating (code : 8787Z0) and chromium plated back inlet spreader with 20mm diameter thread (code : 8543Z0), fixed on and including two hanger brackets	No	20		
	<u>WASTE UNIONS ETC</u>				
	<u>Brass</u>				
11	40mm Chromium plated basin waste union	No	46		
12	40mm Chromium plated sink waste union	No	10		
	<u>TRAPS ETC</u>				
	<u>Traps, etc. including joints to uPVC pipe and/or fittings unless otherwise described</u>				
13	40-40mm "Marley" white "Flexitrap" rubber deep seal P or S double bowl sink trap	No	10		
14	40mm "Cobra" 316 chromium plated sink waste complete with plug, chain and backnut	No	18		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 17				
	Plumbing and Drainage				

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

15	63.5mm "Cobra" 302-32 chromium plated slotted basin Aquawaste includes 62mm diameter flange, 78mm long shank and 32mm male outlet connection with plug, chain and backnut	No	46		
16	50mm "Cobra" COB - 335 chromium plated bottle trap	No	18		
17	50mm "Cobra" COB - 345/50P chromium plated bottle trap	No	46		
<u>TAPS, VALVES, ETC</u>					
<u>Brass</u>					
18	15 mm 1001/125 Fullway gate valve	No	12		
19	22 mm 1001/ 125 Fullway gate valve	No	9		
20	50mm Brass wheel valve	No	6		
21	75mm Brass wheel valve	No	7		
<u>"Cobra Watertech " chromium plated</u>					
22	15mm Chromium plated "Flexihose" connector	No	161		
23	15mm 059-15CP extension piece with sliding wall flange	No	9		
24	15mm Angle regulating valve (code 832-10)	No	153		
25	15mm COB-DU-951 "Dura " chrome basin mixer with pop up waste	No	40		
26	15mm 166/041CA "Carina" sink mixer	No	10		
27	15mm NM - 851 medical elbow action basin mixer includes progressive cartridge	No	6		
28	15mm COB-KF4-213 Standard flushmaster flushvalves with standard econoflush access boxincludes back entry galvanised steel and wall box, palm, press button, rough brass flush pipes, pre soldered elbow connector and rubber pan connector	No	50		
Carried to Collection				R	
Section No. 2					
Bill No. 17					
Plumbing and Drainage					

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

ELECTRIC WATER HEATERS

"Kwikot"

- 77 200 Litre Megaflow high pressure white enamelled electric hot water geyser complete with matching pressure control expansion relief valve, safety valve and vacuum breakers fixed in position on and including galvanised sheet iron geyser tray in roof space or fixed against wall with brackets

No

3

"Stiebel Eltron" or similar and approved

- 78 "SHU 10S" 10 litre under basin push-through type water heater fixed in position to wall in cupboard, and connected to pipework, complete with pressure control expansion relief valve, 20mm Cobra Masterbox 1', ballstop and vacuum breaker fixed in position to wall

No

9

"Franke" or similar and approved instant boiling water unit

- 79 "Zip" Stainless steel 5 litre Hydroboil, size 318 x 150 x 460mm high instant boiling water unit with a two-way tap control, complete with twin-chamber technology and equipped with Zip GlobalPlus TM Water Filtration Kit, connected to 15mm cold water supply and 220 volt 15 amp electrical power supply, plugged and screwed to wall and fitted under 1 year guarantee.

No

9

WATER SUPPLIES TO FIRE APPLIANCES

"Normalized" Galvanized steel pipes

- 80 25mm Diameter pipes fixed to walls, ceilings, roof slabs or cast in concrete under solid floors
- 81 50mm Ditto
- 82 75mm Ditto

m

9

m

45

m

79

Extra over "normalized" Galvanized steel pipes for steel fittings

- 83 25 mm Fittings.

No

27

Carried to Collection

R

Section No. 2
Bill No. 17
Plumbing and Drainage

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

	<u>Extra over 50mm galvanised steel pipes for steel fittings</u>				
84	Nipple	No	18		
85	Elbow	No	9		
86	Bush	No	12		
87	50 x 25mm Tee	No	9		
88	Union	No	9		
	<u>Extra over 75mm galvanised steel pipes for steel fittings</u>				
89	Nipple	No	3		
90	Elbow	No	3		
91	Bush	No	6		
92	75 x 50mm Tee	No	3		
93	Union	No	6		
	<u>VALVES, ETC.</u>				
	<u>Valves, etc. including joints to steel pipes and/or fittings unless otherwise described</u>				
94	50mm Brass wheel valve	No	9		
95	75mm Brass wheel valve	No	3		
	<u>FIRE APPLIANCES ETC.</u>				
	<u>"Chubb"</u>				
96	"Everyway" hose reel complete with 30 m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket.	No	15		
97	80 x 65mm Brass right angle hydrant valve with cap and chain	No	3		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 17				
	Plumbing and Drainage				

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

	<u>Extinguishers</u>				
98	4,5kg DCP(fe) dry powder portable fire extinguisher on and including wrought Meranti backboard size 520 x 100 x 22mm thick plugged and screwed to wall and finished with two coats of polyurethane varnish, including 120 x 20 x 2mm mild steel strip bent to form hook	No	41		
	<u>TESTING</u>				
99	Provide all necessary apparatus, water, etc. for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Representative / Principal Agent and the Local Authority, rectify all defective work free of charge and leave in perfect order		Item		
	<u>BUILDER'S WORK, INCLUDING ALL MAKING GOOD</u>				
100	Hole through one brick wall for pipe not exceeding 100mm diameter	No	92		
101	Fair cutting and fitting of facings around pipe not exceeding 100mm diameter	No	4		
102	Ditto, exceeding 100mm and not exceeding 200mm	m	3		
103	Cut and fit wall tiling around pipe not exceeding 100mm diameter	No	78		
104	Ditto, exceeding 100mm and not exceeding 200mm diameter	No	4		
105	110mm sleeve through 255mm concrete slab	No	24		
	<u>PAINTWORK</u>				
	<u>Prepare, prime with a self etching primer and apply one coat universal undercoat and one full coat high gloss enamel paint</u>				
106	On galvanised mild steel pipe not exceeding 300mm girth	m	122		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 17				
	Plumbing and Drainage				

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

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JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

Item No		Quantity	Rate	Amount
	<u>SECTION No. 2</u>			
	<u>BILL No. 19</u>			
	<u>PAINTWORK</u>			
	<u>NOTE:</u>			
	Tenderers are advised to study the Model Preambles for Trades 2008 before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>PAINT SPECIFICATIONS</u>			
	All painting shall be done in accordance with "Plascon" specifications unless otherwise described			
	<u>COLOURS</u>			
	Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat "Plascon Plaster Primer", one coat "Plascon Primer Sealer" and two full coats "Plascon wash n Wear Luxurious Silk" for interior use</u>			
1	On walls and columns	m2	71	
2	On ceilings and beams (No Skim Plaster)	m2	289	
	<u>ON INTERNAL GYPSUM PLASTER SURFACES</u>			
	<u>One coat "Plascon Plaster Primer", one coat "Plascon Primer Sealer" and two full coats "Plascon wash n Wear Luxurious Silk" for interior use</u>			
3	On walls and columns	m2	2,585	
4	On ceilings and beams	m2	1,697	
	Carried to Collection			R
	Section No. 2			
	Bill No. 19			
	Paintwork			

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

5	On internal bulkheads	m2	694		
6	On internal drywall partitions	m2	5,934		
<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>					
<u>One coat "Plascon Plaster Primer", and two full coats "Plascon Micatex - extremely durable UV-resistant waterbased mica reinforced fine textured acrylic paint"</u>					
7	On walls and columns	m2	902		
8	On ceilings and beams	m2	211		
<u>ON EXTERNAL TEXTURED PLASTER SURFACES</u>					
<u>One coat "Plascon Plaster Primer", and two full coats "Plascon Micatex - extremely durable UV-resistant waterbased mica reinforced fine textured acrylic paint"</u>					
9	On walls and columns	m2	1,133		
10	Extra over paintwork to all areas for paintwork in colours which have a value of 7 or less on the Munsell system	m2			
<u>ON SMOOTH CONCRETE SURFACES</u>					
<u>One coat "Plascon Plaster Primer", and two full coats "Plascon Micatex - extremely durable UV-resistant waterbased mica reinforced fine textured acrylic paint"</u>					
11	On precast concrete copings, sills, etc	m2	111		
<u>ON PLASTERBOARD SURFACES</u>					
<u>Prepare, stop and apply one coat "Plascon" Trade alkali resistant primer and two coats "Plascon" Acrylic PVA</u>					
12	On ceilings	m2	150		
<u>ON FIBRE-CEMENT BOARD SURFACES</u>					
Carried to Collection				R	
Section No. 2					
Bill No. 19					
Paintwork					

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>				
13	Eaves soffit covering, including priming metal cover strips and nailheads	m2	73		
14	Fascias and barge boards, including priming metal jointing strips	m2	179		
	<u>ON METAL SURFACES</u>				
	<u>Prepare and apply Carboclad 900 ZA primer to 40 micron dry film thickness, one coat general purpose undercoat to 40 micron dry film thickness and one enamel finishing coat to 50 micron dry film thickness</u>				
15	On general surfaces of structural steelwork	m2	353		
16	On eaves gutters	m2	24		
17	On rainwater downpipes	m2	5		
	<u>One coat alkyd based zinc phosphate primer and two coats Plascon Velvaglo polyurethane enamel paint</u>				
18	On doors	m2	31		
19	On door frames	m2	144		
20	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	137		
21	On vanity frame brackets, etc	m2			
22	Rails, bars, pipes, etc not exceeding 300mm girth	m	76		
	<u>ON WOOD SURFACES</u>				
	<u>One coat alkyd based zinc phosphate primer and two coats Plascon Velvaglo polyurethane enamel paint</u>				
23	On doors	m2	520		
24	Skirting, rail, etc. not exceeding 300mm girth	m	376		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 19				
	Paintwork				

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

<u>Three coats superior quality clear matt varnish</u>					
25	On doors	m2	13		

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Item No		Quantity	Rate	Amount
	<u>SECTION No. 3</u>			
	<u>BILL No. 1</u>			
	<u>EXTERNAL WALKWAYS, STEPS, RAMPS, RETAINING STRUCTURES, ETC</u>			
	<u>NOTE:</u>			
	Tenderers are advised to study the Model Preambles for Trades 2008 before pricing this bill			
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Trenches	m3	44	
2	Bases	m3	12	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	5	
4	Hard rock	m3	3	
	<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	33	
	<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	124	
	<u>Keeping excavations free of water</u>			
7	Keeping excavations free of all water other than subterranean water	Item		
	<u>FILLING ETC</u>			
	Carried to Collection		R	
	Section No. 3			
	Bill No. 2			
	External walkways, steps, ramps, retaining structures, etc			

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site including haulage approximately 100m from perimeter of excavations or stock piles, compacted to 93% Mod AASHTO density</u>				
8	Backfilling to trenches, holes, etc	m3	23		
	<u>Selected Grade G6 filling material supplied by the contractor, compacted in layers of 150mm to 93% Mod AASHTO density</u>				
9	Under floors, steps, pavings, etc	m3	281		
	<u>Garden soil filling supplied by the contractor (3 parts top soil, 1 part compost and 1 part milled pine bark)</u>				
10	In plant boxes	m3	2		
	<u>Stone filling of 19mm broken stone</u>				
11	In flower boxes	m3	2		
	<u>Compaction of surfaces</u>				
12	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	1,711		
	<u>Prescribed density tests on filling</u>				
13	"Modified AASHTO Density" test	No	13		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide in accordance with SANS 5859</u>				
14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	41		
15	To bottoms and sides of trenches etc	m2	38		
	<u>CONCRETE</u>				
	<u>UNREINFORCED CONCRETE</u>				
	Carried to Collection			R	
	Section No. 3				
	Bill No. 2				
	External walkways, steps, ramps, retaining structures, etc				

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>15MPa/19mm concrete</u>				
16	Surface blinding under footings and bases	m3	2		
	<u>25MPa/19mm concrete</u>				
17	Steps, etc	m3	4		
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete</u>				
18	Strip footings	m3	9		
19	Surface beds	m3	1		
20	Base under steps	m3	12		
21	Ramps	m3	4		
	<u>TEST CUBES</u>				
22	Making and testing 150 x 150 x 150mm concrete strength test cube	No	6		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete semi smooth with a wood float</u>				
23	Surface beds, ramps, etc	m2	43		
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Rough formwork to sides</u>				
24	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	9		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Expansion joints with 10mm closed cell expanded polyethylene between vertical concrete surfaces</u>				
25	Not exceeding 300mm high to edges of surface beds	m	58		
Carried to Collection				R	
Section No. 3					
Bill No. 2					
External walkways, steps, ramps, retaining structures, etc					

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

<u>REINFORCEMENT</u>				
<u>Mild steel reinforcement to structural concrete work</u>				
26	8mm Diameter bars	t	0.3	
<u>High tensile steel reinforcement to structural concrete work</u>				
27	12mm Diameter bars	t	0.5	
<u>Fabric reinforcement</u>				
28	Type 193 fabric reinforcement in concrete surface beds etc	m2	105	
29	Type 245 fabric reinforcement in concrete base under steps	m2	62	
<u>PRECAST CONCRETE COPINGS ETC</u>				
<u>"Modcon Precast Concrete Solutions" precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u>				
30	310 x 40mm Thick overall copings, type 0138, with drip grooves in bottom along both edges	m	59	
<u>BRICKWORK</u>				
<u>Brickwork of NFP bricks in class II mortar</u>				
31	Piers	m3	1	
32	110mm Brick walls	m2	218	
33	345mm Brick walls	m2	77	
<u>Joint forming material in movement joints</u>				
34	12mm Bitumen impregnated fibre board built in vertically through brick walls not exceeding 300mm wide	m	5	
<u>2,5mm Brickwork reinforcement</u>				
35	75mm Wide reinforcement built in horizontally	m	641	
Carried to Collection				R
Section No. 3				
Bill No. 2				
External walkways, steps, ramps, retaining structures, etc				

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>"Old World" Precast concrete steps laid and sealed as per manufacturers specification</u>				
40	50mm thick x 358 x 1 260mm rectangular steps laid in cement bed on cement surface bed (In No 182)	m2	81		
	<u>KERBS</u>				
	<u>Precast concrete kerbing laid with 10mm wide butt joints filled in with cement mortar and pointed with grooved half round joints and 10mm wide open butt joints at 5m centres including 15MPa/19mm mass concrete bedding size 50mm thick x 400mm wide and 20MPa/19mm mass concrete haunching size 150mm wide x 180mm high, including backfilling at back of battered kerbing, topsoiled and levelled to adjacent surfaces</u>				
41	Kerbing to SABS 927 Fig. 3 in 1m lengths and including rectangular kerbing to SABS Fig. 13 laid horizontally with butt joint against battered kerbing	m	281		
42	Ditto, in 300mm lengths circular on plan	m	32		
	<u>RETAINING SYSTEM</u>				
	<u>"Loffelstein" precast concrete interlocking planter blocks finished smooth on exposed raking surfaces</u>				
43	Retaining structures with stepped face and curves as required to suit slopes, of 500 x 450 x 170mm high type "L500" interlocking planter blocks laid with horizontal bed joints to 87 degree slope, including average 200mm thick compacted earth filling behind the blocks and filling blocks with garden soil lightly tamped as the work proceeds	m2	556		
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>				
44	Under surface beds	m2	43		
45	Vertically against walls	m2	60		
	<u>HANDRAILS</u>				
	Carried to Collection			R	
	Section No. 3				
	Bill No. 2				
	External walkways, steps, ramps, retaining structures, etc				

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>Polished stainless steel grade 316 rail at ramp</u>				
46	50mm Diameter x 2mm wall thickness hand rail horizontal or raking	m	59		
47	Extra over handrail for ramp, knee or bend	No	8		
48	Handrail bracket formed of 16mm solid round bar 350mm long once bend to form L, one end welded to pipe rail and other end fixed in concrete or brickwork with epoxy including mortise and fitted with 50mm diameter x 5mm thick flange plate flush with wall	No	59		
	<u>Polished stainless steel grade 316 handrails at steps</u>				
49	Horizontal balustrades 1 100mm high, with 50mm external diameter x 3mm thick continuous satin finish stainless steel pipe handrail, on and including 10 mm diameter stainless steel pin 50mm long, welded to top of stanchion and bottom of handrail, complete with 25 x 25 x 2.5mm mild steel stanchions 1 050mm long at 600mm centres, with tops of stanchions close with and including 5mm thick end cap welded on, with 50mm diameter x 100mm deep core drilled hole into concrete and fix stanchion into hole with epoxy, complete with 50 x 50 x 5mm mild steel cover plate holed for and welded to stanchion, with and including six 10mm diameter continious mild steel rails threaded through and including holes in stanchions (Type B)	m	7		
50	Raking balustrades 1 100mm high, with 50mm external diameter x 3mm thick continuous satin finish stainless steel pipe handrail, on and including 10 mm diameter stainless steel pin 50mm long, welded to top of stanchion and bottom of handrail, complete with 25 x 25 x 2.5mm mild steel stanchions 1 050mm long at 600mm centres, with tops of stanchions close with and including 5mm thick end cap welded on, with 50mm diameter x 100mm deep core drilled hole into concrete and fix stanchion into hole with epoxy, complete with 50 x 50 x 5mm mild steel cover plate holed for and welded to stanchion, with and including six 10mm diameter continious mild steel rails threaded through and including holes in stanchions (Type B)	m	12		
51	Extra over for short radius bend	No	4		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 2				
	External walkways, steps, ramps, retaining structures, etc				

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Item No		Quantity	Rate	Amount
	<u>BILL No. 2</u>			
	<u>STORMWATER DRAINAGE, SOIL DRAINAGE AND WATER SUPPLY</u>			
	<u>NOTE:</u>			
	Tenderers are advised to study the Model Preambles for Trades 2008 before pricing this bill			
	All excavations are measured as being in "earth" and/or filling compacted to 98% modified AASHTO density. Descriptions of excavations shall be deemed to include for setting aside surplus excavated material in spoil heaps for use as filling or for depositing within 150m of the perimeter of the excavations and spreading and roughly levelling as directed, as well as for increase in bulk and multiple handling of excavated material caused by the Contractor's method of operation. Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site and for bulking			
	<u>STORMWATER DRAINAGE</u>			
	<u>Stormwater connection</u>			
1	Break into existing 300mm diameter concrete stormwater pipe for and connect new 200mm diameter uPVC/ precast concrete stormwater pipe including alterations to benching	No	1	
	<u>PIPE WORK</u>			
	<u>Concrete stormwater pipes Class 100D SABS677 with rubber collars</u>			
2	600mm Diameter pipe including excavation not exceeding 1m deep	m	320	
	<u>CATCHPITS</u>			
	Carried to Collection		R	
	Section No. 3			
	Bill No. 3			
	Sewer, Water and Stormwater			

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>Catchpits shall be constructed on 150mm thick 25MPa/19mm concrete bases; with one brick sides in extra hard clay bricks; with plaster finish (3:1) to inside; with 25 x 25 x 3mm angle section (primed and enamel painted) surround frame for and including RS 40 grating (bitumen dipped) with 40 x 25mm openings and 25 x 4mm bearer bars (spanning short distance); surround frame with 3 x 20mm split and fanged lugs 150mm long at maximum 300mm centres bedded in 100 x 230mm smooth concrete surround, including all excavations, fill, formwork, etc.</u>				
3	Size 1,00 x 1,00m internally in depths from 0,0m up to 1,0m	No	4		
4	Size 1,00 x 1,00m internally in depths exceeding 1,0m up to 2,0m	No	4		
<u>SOIL DRAINAGE</u>					
<u>Sewer connection</u>					
5	Break into side of existing 1 050mm diameter precast concrete manhole for and connect new 160mm diameter uPVC sewer pipe including alterations to benching	No	1		
<u>uPVC pipes and fittings</u>					
6	110mm Pipe and fixing vertically or raking in ramps (no excavation)	m	54		
7	110mm Pipe and excavation in earth not exceeding 1m deep	m	23		
8	110mm Pipe and excavation in earth exceeding 1m and not exceeding 2m deep	m	76		
9	160mm Pipe and fixing vertically or raking in ramps (no excavation)	m	8		
10	160mm Pipe and excavation not exceeding 1m deep	m	21		
11	160mm Pipe including excavation exceeding 1m and not exceeding 2m deep	m	58		
Carried to Collection				R	
Section No. 3					
Bill No. 3					
Sewer, Water and Stormwater					

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

12	160mm Pipe and excavation exceeding 2m and not exceeding 4m deep	m	91		
	<u>Extra over uPVC pipe for fittings</u>				
13	110mm Bend	No	6		
14	160mm Bend	No	4		
15	110mm Access bend	No	8		
16	160mm Access bend	No	6		
17	110mm Junction	No	5		
18	160mm Junction	No	6		
19	110mm Access junction	No	7		
20	160mm Access junction	No	8		
21	160mm Access pipe	No	4		
	<u>THE FOLLOWING IN PRE-FABRICATED MANHOLES</u>				
	<u>Shallow type manhole not exceeding 2m deep to invert level formed of precast concrete components all bedded and jointed with approved watertight joints, the chamber comprising 1m internal diameter x 65mm wall thickness rings, the bottom ring set on and including 250mm thick 20MPa/19mm mass concrete foundation projecting 75mm beyond external face of chamber ring and sealed to ring with 75mm wide x 125mm high 20MPa/19mm mass concrete triangular fillet complete with 150mm thick reducer/cover slab with 720mm diameter shaft/access opening and with precast concrete cover and frame comprising 100mm thick x 63kg frame and 100mm thick x 57kg cover, complete with and including necessary step irons, 20MPa/19mm mass concrete benching in bottom with top surfaces to falls and finished smooth with cement plaster, 160mm uPVC channels, channel bends, channel junctions, etc., additional excavation and backfilling compacted to 90% modified AASHTO density</u>				
22	Manhole exceeding 1m and not exceeding 1,5m deep	No	3		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 3				
	Sewer, Water and Stormwater				

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

23	Manhole exceeding 1,5m and not exceeding 2m deep	No	2		
24	Manhole exceeding 2m and not exceeding 2.5m deep	No	2		
25	Manhole exceeding 2,5m and not exceeding 3m deep	No	1		
26	Hole through side of pre-cast concrete manhole for pipe exceeding 100 and not exceeding 200mm diameter and make good	No	10		
	<u>Sundries</u>				
27	15MPa/19mm Mass concrete encasing around 110mm horizontal drain pipe including all necessary formwork	m	11		
28	15MPa/19mm Mass concrete encasing around 160mm horizontal drain pipe including all necessary formwork	m	9		
29	15MPa/19mm Mass concrete encasing around 110mm vertical or raking drain pipe to cleaning eye including all necessary formwork	m	8		
	<u>WATER SUPPLY</u>				
	<u>Water connection</u>				
30	Provide the Provisional Amount of R 10 000.00 (Ten Thousand Rand) NET for the connection to the water main		Item		10,000 00
31	Allow for profit		Item		
	<u>Mineflo 1200 Kpa / uPVC Class 12 piping with O-ring type pressure fittings</u>				
32	75mm Pipe and excavation not exceeding 1m deep	m	120		
	<u>Extra over Mineflo water pipes for pressure fittings</u>				
33	75mm Bend	No	4		
34	75mm Tee	No	6		
35	75mm Saddle	No	12		
36	75mm steel to uPVC connector	No	3		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 3				
	Sewer, Water and Stormwater				

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>Valves, etc. including joints to pipes and/or fittings</u>				
37	75mm Brass fullway wheel valve	No	1		
	<u>Galvanised mild steel screwed and socketed pipes and fittings</u>				
38	25mm Pipes fixed against concrete slabs, etc, with and including holder bats on 1 000mm centres	m	4		
39	50mm Pipes fixed against concrete slabs, etc, with and including holder bats on 1 000mm centres	m	6		
40	50mm Pipes and excavation not exceeding 1m deep	m	5		
41	75mm Pipes and excavation not exceeding 1m deep	m	6		
	<u>Extra over galvanised mild steel pipes for mild steel fittings</u>				
42	25mm Fittings	No	4		
43	50mm Bend	No	2		
44	50mm Tee	No	1		
45	50 x 25mm reducer	No	1		
46	75 x 50mm reducer	No	2		
47	75mm Bend	No	2		
48	75mm Tee	No	1		
49	75/20 Kent 3000V combination water meter to NP 16	No	1		
	<u>FIRE WATER SUPPLY</u>				
	<u>Galvanised mild steel screwed and socketed pipes and fittings</u>				
50	75mm Pipes and excavation not exceeding 1m deep	m	107		
	<u>Extra over galvanised mild steel pipes for mild steel fittings</u>				
51	75mm Nipple	No	4		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 3				
	Sewer, Water and Stormwater				

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

52	75mm Bend	No	6		
53	75mm Tee	No	2		
	<u>Valves, etc. including joints to pipes and/or fittings</u>				
54	75mm Brass fullway wheel valve	No	2		
	<u>FIRE APPLIANCES ETC</u>				
55	80 x 65mm Brass right angle hydrant valve with cap and chain	No	1		
56	Booster connection for Local Fire Department, in 75mm pipe	No	1		
	<u>Fire hydrant pedestals</u>				
57	Hydrant pedestal 900mm high formed of 20MPa/19mm mass concrete cast around vertical pipe with bottom 300mm below ground, 300 x 300mm square at base and tapering to octagonal shaped top 200 x 200mm overall including necessary excavation, formwork and preparing for and applying one coat universal undercoat and two full coats high gloss enamel paint to exposed surfaces	No	1		
	<u>TESTING</u>				
58	Provide all necessary apparatus, water, etc. for and test the whole of the Soil Drainage, Water Supply and Fire Water systems to the satisfaction of the Representative / Principal Agent and the Local Authority, rectify all defective work free of charge and leave in perfect order			Item	
	<u>SUNDRIES</u>				
59	1 640 x 1 440 x 600mm Cast iron water connection chamber including brick chamber below 600mm deep internally, filled with 19mm crushed stone, all as per detail attached	No	1		
60	Extra over excavations in earth for pipe trenches, etc. for excavations in soft rock	m3	1		
61	Extra over excavations in earth for pipe trenches, etc. for excavations in hard rock	m3	1		
Carried to Collection				R	
Section No. 3					
Bill No. 3					
Sewer, Water and Stormwater					

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

62	15MPa/19mm Mass concrete in thrust blocks around fittings including any necessary additional excavation, formwork, etc.	m3	1		
Carried to Collection					R
Section No. 3 Bill No. 3 Sewer, Water and Stormwater					

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Item No		Quantity	Rate	Amount
	<u>SECTION No. 3</u>			
	<u>BILL No. 4</u>			
	<u>BUILDER'S WORK IN CONNECTION WITH SPECIAL SERVICES</u>			
	<u>NOTE:</u>			
	Tenderers are advised to study the Model Preambles for Trades 2008 before pricing this bill			
	All excavations are measured as being in "earth" and/or filling compacted to 98% modified AASHTO density. Descriptions of excavations shall be deemed to include for setting aside surplus excavated material in spoil heaps for use as filling or for depositing within 150m of the perimeter of the excavations and spreading and roughly levelling as directed, as well as for increase in bulk and multiple handling of excavated material caused by the Contractor's method of operation. Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site and for bulking			
	<u>ELECTRICAL INSTALLATION</u>			
1	Set of two 160mm PVC sleeve pipes and excavation not exceeding 1m deep	m	25	
2	Set of two 160mm PVC sleeve pipes vertical or raking, and excavation not exceeding 1m deep	m	3	
3	Set of four 160mm PVC sleeve pipes and excavation not exceeding 1m deep	m	9	
4	Set of six 160mm PVC sleeve pipes and excavation not exceeding 1m deep	m	7	
5	50mm PVC sleeve pipe fixed to wall	m	8	
	Carried to Collection			
	Section No. 3			
	Bill No. 4			
	Builder's Work in connection with Special Services			

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

6	75mm PVC sleeve pipe fixed to wall	m	3		
7	110mm PVC sleeve pipe fixed to wall	m	5		
8	Extra over PVC pipe for 50mm bend	No	2		
9	Extra over PVC pipe for 75mm bend	No	3		
10	Extra over PVC pipe for 75mm bend	No	2		
11	Extra over PVC pipe for 160mm slow 90 degrees bend	No	4		
12	Excavate in earth for and build manhole with one brick sides on and including a 100mm thick 20MPa/19mm mass concrete base projecting 100mm under wall from face all round, including finishing in 3:1 cement plaster on inside, with 100mm thick 20MPa/19mm mass concrete slab over finished on all exposed surfaces in untinted granolithic with angles rounded with opening for and including 600 x 600mm cast iron double seal heavy duty manhole cover and frame with a mass of 75kg, laid in cement and sealed in tallow; size internally 1 500 x 1 500mm x 900mm deep	No	2		
<u>ELECTRONIC AND TELEPHONE INSTALLATION</u>					
<u>NOTE:</u>					
All sleeve pipes and pipe conduits to be supplied with draw wires as necessary for fixing of cables and wiring					
13	Set of two 160mm PVC sleeve pipes and excavation not exceeding 1m deep	m	16		
14	32mm PVC sleeve pipe and excavation not exceeding 1m deep	m	14		
15	110mm PVC sleeve pipe and excavation not exceeding 1m deep	m	13		
16	32mm PVC sleeve pipe fixed to wall	m	18		
17	110mm PVC sleeve pipe fixed to wall	m	12		
18	Extra over PVC pipe for 32mm bend	No	8		
19	Extra over PVC pipe for 110mm bend	No	6		
Carried to Collection				R	
Section No. 3					
Bill No. 4					
Builder's Work in connection with Special Services					

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

- 20 Excavate in earth for and build manhole with one brick sides on and including a 100mm thick 20MPa/19mm mass concrete base projecting 100mm under wall from face all round, including finishing in 3:1 cement plaster on inside, with 100mm thick 20MPa/19mm mass concrete slab over finished on all exposed surfaces in untinted granolithic with angles rounded with opening for and including 600 x 600mm cast iron double seal heavy duty manhole cover and frame with a mass of 75kg, laid in cement and sealed in tallow; size internally 600 x 600 x 900mm deep

No

2

SUNDRIES

- 21 Extra over all excavations in earth for pipe trenches, etc. for excavations in soft rock

m3

1

- 22 Extra over all excavations in earth for pipe trenches, etc. for excavations in hard rock

m3

1

Carried to Collection

R

Section No. 3

Bill No. 4

Builder's Work in connection with Special Services

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Item No	Quantity	Rate	Amount
<u>SECTION No. 4</u>			
<u>BILL NO 1</u>			
<u>PROVISIONAL SUMS</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>General</u>			
Work for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances			
Prime cost amounts and provisional sums are net. Prime cost amounts include for delivery to site of all articles concerned			
Provisional sums are for material and equipment supplied and installed complete by firms of specialists			
<u>Profit</u>			
Where stated, the contractor may allow for profit if required			
<u>General attendance on nominated/selected subcontractors</u>			
The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:			
1	The services as set out in clause B9.1 of the Preliminaries		
2	Making good in all trades and cleaning down and removal of rubbish on completion		
Carried to Collection			R
Section No. 4			
Bill No. 1			
Provisional Sums			

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

<u>Special attendance on nominated/selected subcontractors</u>				
Where stated special attendance will be described in detail in the Schedule for Variables in the Preliminaries for the services as set out in clause B9.2				
<u>Builder's work</u>				
Builder's work in connection with specialist services is given elsewhere in these bills of quantities				
<u>PROVISIONAL SUMS FOR NOMINATED/SELECTED SUBCONTRACT WORKS</u>				
<u>Main building signage</u>				
1	Provide the sum of R 200 000.00 (Two Hundred Thousand Rand) for building signage	Item	200,000	00
2	Profit	Item		
3	Attendance	Item		
<u>Directional, information and identification signage.</u>				
4	Provide the sum of R 90 000.00 (Ninety Thousand Rand) for directories, notice boards and sundry identification signage	Item	90,000	00
5	Profit	Item		
6	Attendance	Item		
<u>Safety and emergency signage.</u>				
7	Provide the sum of R 30 000.00 (Thirty Thousand Rand) for letters, signs, plaques, symbols and emblems for safety purposes	Item	30,000	00
8	Profit	Item		
9	Attendance	Item		
Carried to Collection			R	
Section No. 4				
Bill No. 1				
Provisional Sums				

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

	<u>Main Counter installation</u>			
10	Provide the sum of R 100 000.00 (One Hundred Thousand Rand) for main counter installation	Item	100,000	00
11	Profit	Item		
12	Attendance	Item		
	<u>Structural steelwork</u>			
13	Provide the sum of R 800 000.00 (Eight Hunderd Thousand Rand) for structural steelwork to staircase	Item	800,000	00
14	Profit	Item		
15	Attendance	Item		
	<u>Sundry metalwork</u>			
16	Provide the sum of R 100 000.00 (One Hundred Thousand Rand) for sundry metalwork, duct covers, corner protectors, ventilation grilles, etc	Item	100,000	00
17	Profit	Item		
18	Attendance	Item		
	<u>Steel security sliding gate</u>			
19	Provide the sum of R 50 000.00 (Fifty Thousand Rand) for steel security sliding gate with concrete beam and steel slider for and including automated motor opening mechanism	Item	50,000	00
20	Profit	Item		
21	Attendance	Item		
	<u>Curtain walling, shopfronts, etc</u>			
22	Provide the sum of R 15 000 000.00 (Fifteen Million Rand) for curtain walling, shop fronts, windows, etc	Item	15,000,000	00
23	Profit	Item		
	Carried to Collection		R	
	Section No. 4			
	Bill No. 1			
	Provisional Sums			

**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

24	Attendance	Item		
	<u>Vanity slabs</u>			
25	Provide the sum of R 160 000.00 (One Hundred and Sixty Thousand Rand) for vanity slabs to toilets	Item	160,000	00
26	Profit	Item		
27	Attendance	Item		
	<u>Mirrors</u>			
28	Provide the sum of R 40 000.00 (Fourty Thousand Rand) for mirrors	Item	40,000	00
29	Profit	Item		
30	Attendance	Item		
	<u>Safes</u>			
31	Provide the sum of R 220 000 (Two Hundred and Twenty Thousand Rand) for security steel safes	Item	220,000	00
32	Profit	Item		
33	Attendance	Item		
	<u>Local area network installation</u>			
34	Provide the sum of R 250 000.00 (Two Hundred and Fifty Thousand Rand) for local area network installation	Item	250,000	00
35	Profit	Item		
36	Attendance	Item		
	<u>Kitchen equipment installation</u>			
37	Provide the sum of R 500 000.00 (Five Hundred Thousand Rand) for kitchen equipment installation	Item	500,000	00
38	Profit	Item		
39	Attendance	Item		
Carried to Collection			R	
Section No. 4				
Bill No. 1				
Provisional Sums				

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

	<u>Deck</u>			
40	Provide the sum of R 220 000 (Two Hundred and Twenty Thousand Rand) for deck	Item	220,000	00
41	Profit	Item		
42	Attendance	Item		
	<u>Generator and HVAC plant rooms</u>			
43	Provide the sum of R 100 000.00 (One Hundred Thousand Rand) for Generator and HVAC plant room installation	Item	100,000	00
44	Profit	Item		
45	Attendance	Item		
Carried to Collection			R	
Section No. 4				
Bill No. 1				
Provisional Sums				

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

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**JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)**

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
	<u>PART A: BUILDING WORK</u>		
1	Preliminaries	175	
2	Building Work	270	
3	External Work	293	
4	Provisional Sums	299	
	SUB-TOTAL		R
	<u>PART B: ELECTRICAL, ELECTRONIC, ETC INSTALLATION</u>		
	Amount for Electrical and Electronic installation including Builders mark up (see separate document)	Item	
	<u>PART C : MECHANICAL INSTALLATION</u>		
	Amount for Mechanical installation including Builders mark up (see separate document)	Item	
	SUB TOTAL		R
	Carried Forward		R

JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING : (BUILDING 4)

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
	Brought Forward		R
	<u>CONTINGENCIES</u>		
	Provide the amount of R 5 000 000,00 (Five Million Rand) for contingencies to be omitted or used in full by the Principal agent	Item	5,000,000 00
	SUB TOTAL		R
	VALUE-ADDED TAX (14%)		R
	Carried to Form of Tender		R

PART C3: SCOPE OF WORKS

INDEX

1	C3.1 DESCRIPTION OF WORKS.....
2	C3.2 ARCHITECTURAL SCOPE OF WORK
3	C3.3 ENGINEERING
4	C3.4 DETAILED ELECTRICAL INSTALLATIONS SPECIFICATIONS
5	C3.5 PROCUREMENT
6	C3.6 CONSTRUCTION.....
7	C3.7 MANAGEMENT OF THE WORKS

Annexure A - Tender Drawings & Specification

PART C3: SCOPE OF WORK

CONTENTS

C3.1 DESCRIPTION OF WORKS

C3.1.1 GEP's objectives

GEP's aims to develop Jewellery Manufacturing Precinct, in Bonaero Drive, Portion 282 Farm Witkoppe 64-IR. The building is supposed to capture the "African Diamond" theme.

The objective is to construct a building which will be valuable and will revolutionise the Jewellery industry by providing a functional centre to its tenants with:

- Ø High technology operations
- Ø Generic Flexibility Facility
- Ø Cater for anchor tenants
- Ø Provide space for innovations
- Ø Energy efficient operations
- Ø High security precinct
- Ø Acoustic sensitive
- Ø Creative and interactive usable space

The building is designed as a multi storey facility with a construction area of approximately 7 637sqm. The development will therefore be fast –tracked and more efficient than a totally green field project.

The building will host the tenants such as mentioned below and also provide common shared areas as Conferencing, Reception Area and Ablutions facilities:

Expected anchor tenant:

- Ø IDZ Management Offices
 - Ø Regulatory Diamond Trade
 - Ø State Diamond Trade
 - Ø DeBeers
- Sars, Banks & Restaurants

C3.1.2 Overview of the Works

- Construction of Jewellery Manufacturing Precinct (JMP) will entail the following works
- General Building works which will include, foundations to the specifications provided
- Structural building work (reinforced concrete)
- Civil Engineering services for domestic such as Water Reticulation, Sewerage, Storm water drainage,
- Electrical Installations and access control
- Mechanical installations for HVAC, Fire, Hot water and Lifts
-

C3.1.3 Extent of Works

The works described above will not be limited to the above description. These will be in line with the BOQ for the entire project scope. Liaison with the Engineer throughout this construction by means of written site instructions may supersede the issued construction drawings where necessary. The extent of the works includes:

- Site Establishment, site office and site personnel
- Ordering and procuring of material
- Survey work: Setting out works and levels controls for roads
- Cut and fills for preparations of construction of platforms where specified
- Construction of platforms
- General Building construction for the building to NHBRC regulations and SANS in line with the designs
- Preparation of site for trenching of different services; water, sewer, stormwater, electricity and telecoms
- Installation of services; water, sewer, stormwater, electricity and telecoms
- Bedding of pipe trenches and installation of pipes with manholes and any other required special fittings as per the drawings and the BOQ
- Connections for water sewer and stormwater
- Testing of installed infrastructure
- Commissioning & hand-over

C3.1.4 Location of the Works

Bonaero Drive, Portion 282 Farm Witkoppie 64-IR

C3.1.5 Temporary Works

- Barricaded yard – hoarding of materials
- Temporary site office for contractor which are to also be used for meeting
- Ablution facility for site personnel and Engineers, may be mobile and to comply with Occupation health and Safety regulations
- Potable water supply for site personnel and Engineers
- Electricity for works on site

C3.2 ARCHITECTURAL SCOPE OF WORK

A. JMP Ground Floor

- New RC Substructure as per Engineer Spec;
- New RC Ground level Slab as per Engineer Specification;
- New RC Columns and Beams as per Engineer Specification and Design;
- New External Walls of Ground Level –
 - 60% Double Glazed Curtain Wall System with thermal break profiles;
 - 40 % Plaster and Paint Brick walls Construction;
- New Construction of three Ablution Blocks as per Architectural Drawings each of
 - Toilet cubicle system to be used as partitioning internally in all ablutions;
 - Male Ablution – 1WC, 2Urinals, 2 WB
 - Female Ablution – 2WC, 2WB
 - Disabled Ablution – 2 per level;
 - Total of fittings per floor 8WC, 6Urinals, 14WB;
 - Hand driers 14 units per floor;
 - Soap Dispensers 14 units per floor;
- New Construction of 2 lift shafts each with size 5000x8000mm contain 1 passenger lift and 1 loads lift with adjacent RC Emergency staircase from Ground to First Floor;
- New Construction of 1 lift shaft size 5000x8000mm contain 2 panoramic passenger lifts at the Atrium;
- New feature staircase at Atrium space;
- New Construction of Atrium Space with Feature Entrance Curtain Wall triples volume thru the height of the building.
 - Estimate area 430m²;
 - Porcelain Tiles Floor Finish;
 - 60% Acoustic Wall Panels;
 - Acoustic Suspended Ceiling feature Panels;
 - Decorative Custom made sculpture around main staircase of atrium;

- **Exhibition Centre space:**
 - Estimate area 380m²;
 - Floor Finish - Self-Levelling polished screed/ Porcelain Tiles/ High Quality Carpet;
 - Blinds or Shading Device installation around the external walls of the space;
 - Acoustic suspended ceiling;

- **Conference Rooms Space:**
 - Estimate Area 800m²
 - 4 Board Rooms of 100m²
 - 6 Board Rooms of 50m²
 - 3 Board Rooms of 30m²
 - Subdivided by Demountable Acoustic Partitioning System with top and bottom tracks and door panels included; Estimate Area 1050m²
 - Floor Finish – High Quality Carpet;
 - Blinds or Shading Device installation around the external walls of the space;
 - Wall Paper wall finish 60%
 - Acoustic suspended ceiling;

- **Server Room**
 - Estimate Area 40m²
 - 230mm brick walls
 - Mechanical Ventilation
 - Access Flooring
 - Plaster and Paint Wall Finish

- **Training Center**
 - Estimate Area 220m²
 - Floor Finish – Porcelain Tiles or Vinyl Flooring
 - Wall Finish – Plaster and Paint, 60% Acoustic Wall Panels
 - Acoustic suspended ceiling;
 - Blinds or Shading Device installation around the external walls of the space;
 - Equipped with Smart board screen and student furniture for 20persons;

- **Business Area**

- Estimate Area 270m²
- Floor Finish – High Quality Carpet;
- Internal Office partitioning system:
Estimate Quantity of fixed partitioning:
150m²glazed partitioning
400m² solid partitioning
- Blinds or Shading Device installation around the external walls of the space;
- Acoustic suspended ceiling;

- **Canteen**

- Estimate Area 220m²
- 230mm internal brick walls with plaster and paint finish
- Floor Finish – Porcelain Tiles
- Blinds or Shading Device installation around the external walls of the space;
- Kitchen Unit equipped with:
2x1200x1800mm Fridges,
Stove,
2 x Microwave,
2 x sink
Top and Bottom cupboards
Granite or Ceaser stone worktops

- **Kitchenettes 3 units**

- Estimate Area 60m²
- 230mm internal brick walls with plaster and paint finish
- Floor Finish – Porcelain Tiles
- Blinds or Shading Device installation around the external walls of the space;
- Kitchen Unit equipped with:
Fridges,
Stove,
Microwave,

Sink

Top and Bottom cupboards

Granite or Ceasestone worktops

- **Services**

- Lifts Installation as per Mechanical Engineer design and specifications
- HVAC Installation as per Mechanical Engineer design and specifications
- Electrical Installation as per Electrical Engineer deign and specifications
- Lighting Installation as per Electrical Engineer deign and specifications
- Biometric Access as per Electrical Engineer deign and specifications
- IT & Data Installation as per Mechanical Engineer design and specifications
- Generator as per Mechanical Engineer design and specifications
- Fire Protections as per Mechanical Engineer design and specifications

B. JMP First Floor

- New RC First Floor level Slab as per Engineer Specification;
- New RC Columns and Beams as per Engineer Specification and Design;
- New External Walls of First Floor Level –
 - 60% Double Glazed Curtain Wall System with thermal break profiles;
 - 40 % Plaster and Paint Brick walls Construction;
- New Construction of three Ablution Blocks as per Architectural Drawings each of
 - Toilet cubicle system to be used as partitioning internally in all ablutions;
 - Male Ablution – 1WC, 2Urinals, 2 WB
 - Female Ablution – 2WC, 2WB
 - Disabled Ablution – 2 per level;
 - Total of fittings per floor 8WC, 6Urinals, 14WB;
 - Hand driers 14 units per floor;
 - Soap Dispensers 14 units per floor;

- **State Diamond Trade space:**

- Estimate area 220m²;
- Floor Finish - High Quality Carpet;
- Internal Fixed Office partitioning system:
- Estimate Quantity
- 300m²glazed partitioning
- 170m² solid partitioning
- Blinds or Shading Device installation around the external walls of the space;
- Acoustic suspended ceiling;

- **Management Office Space:**

- Estimate Area 950m²
 - 1 Meeting Rooms of 100m²
 - 2 Meeting Rooms of 50m²
 - 2 Meeting Rooms of 30m²
- Subdivided by Demountable Acoustic Partitioning System with top and bottom trucks and door panels included to be used for the board rooms; Estimate Area 250m²
- Management Offices 160m²
- Open office space; 530m²
 - Internal Fixed Office partitioning system:
 - Estimate Quantity of fixed partitioning system
 - 800m²glazed partitioning
 - 1100m² solid partitioning
- Floor Finish – High Quality Carpet or Porcelain Tiles;
- Blinds or Shading Device installation around the external walls of the space;
- Wall Paper wall finish 60%
- Acoustic suspended ceiling;

- **Regulatory Diamond Trade**

- Estimate Area 750m²
- Floor Finish – Porcelain Tiles or High Quality Carpet
- Wall Finish – Plaster and Paint, 60% Accosting Wall Panels

- Internal Fixed Office partitioning system:
- Estimate Quantity of fixed partitioning system
- 600m² glazed partitioning
- 900m² solid partitioning
- Acoustic suspended ceiling;
- Blinds or Shading Device installation around the external walls of the space;
- Equipped with Smart board screen and student furniture for 20 persons;

- **Server Room**
 - Estimate Area 40m²
 - 230mm brick walls
 - Mechanical Ventilation
 - Access Flooring
 - Plaster and Paint Wall Finish

- **Kitchenettes 5 units**
 - Estimate Area 100m²
 - 230mm internal brick walls with plaster and paint finish
 - Floor Finish – Porcelain Tiles
 - Blinds or Shading Device installation around the external walls of the space;
 - Kitchen Unit equipped with:
 - Fridges,
 - Stove,
 - Microwave,
 - Sink
 - Top and Bottom cupboards
 - Granite or Ceasestone worktops

- **Services**
 - Lifts Installation as per Mechanical Engineer design and specifications
 - HVAC Installation as per Mechanical Engineer design and specifications
 - Electrical Installation as per Electrical Engineer design and specifications
 - Lighting Installation as per Electrical Engineer design and specifications

- Biometric Access as per Electrical Engineer design and specifications
- IT & Data Installation as per Mechanical Engineer design and specifications
- Generator as per Mechanical Engineer design and specifications
- Fire Protections as per Mechanical Engineer design and specifications
-

C. JMP Second Floor

- New RC Second Floor Level Slab as per Engineer Specification;
- New RC Columns and Beams as per Engineer Specification and Design;
- New External Walls of Second Level –
 - 60% Double Glazed Curtain Wall System with thermal break profiles;
 - 40 % Plaster and Paint Brick walls Construction;
- New Construction of three Ablution Blocks as per Architectural Drawings each of
 - Toilet cubicle system to be used as partitioning internally in all ablutions;
 - Male Ablution – 1WC, 2Urinals, 2 WB
 - Female Ablution – 2WC, 2WB
 - Disabled Ablution – 2 per level;
 - Total of fittings per floor 8WC, 6Urinals, 14WB;
 - Hand driers 14 units per floor;
 - Soap Dispensers 14 units per floor;
- **Regulatory Diamond Trade space;**
 - Estimate area 1900m²;
 - 1 Meeting Rooms of 100m²
 - 2 Meeting Rooms of 50m²
 - 2 Meeting Rooms of 30m²
 - Subdivided by Demountable Acoustic Partitioning System with top and bottom tracks and door panels included to be used for the board rooms; Estimate Area 250m²
 - Management Offices 160m²
 - Open office space; 1100m²
 - Internal Fixed Office partitioning system:
 - Estimate Quantity of fixed partitioning system
 - 1400m²glazed partitioning

- 1900m² solid partitioning
- Floor Finish – High Quality Carpet or Porcelain Tiles;
- Blinds or Shading Device installation around the external walls of the space;
- Wall Paper wall finish 60%
- Acoustic suspended ceiling;

- **Server Room**
 - Estimate Area 40m²
 - 230mm brick walls
 - Mechanical Ventilation
 - Access Flooring
 - Plaster and Paint Wall Finish

- **Kitchenettes 3 units**
 - Estimate Area 60m²
 - 230mm internal brick walls with plaster and paint finish
 - Floor Finish – Porcelain Tiles
 - Blinds or Shading Device installation around the external walls of the space;
 - Kitchen Unit equipped with:
 - Fridges,
 - Stove,
 - Microwave,
 - Sink
 - Top and Bottom cupboards
 - Granite or Ceasestone worktops

- **Services**
 - Lifts Installation as per Mechanical Engineer design and specifications
 - HVAC Installation as per Mechanical Engineer design and specifications
 - Electrical Installation as per Electrical Engineer deign and specifications
 - Lighting Installation as per Electrical Engineer deign and specifications
 - Biometric Access as per Electrical Engineer deign and specifications

- IT & Data Installation as per Mechanical Engineer design and specifications
- Generator as per Mechanical Engineer design and specifications
- Fire Protections as per Mechanical Engineer design and specifications

SHARED SERVICES OFFICE

	ITEM	Purpose/Use
1.1	Conferencing/Exhibition Should provide for big room and break-away rooms	Common use Meetings Exhibitions Break-away rooms
1.2	Restaurant/ coffee shop/Banqueting space	
1.3	High tech/ Equipment hub	Share equipment's
1.4	Business area (Incubator Space) Should design for Earlier stage & Last stage	Manufacturing space/office (Should resemble the Germiston existing one)
1.5	Training center	15 Student (Check Rand Refinery in Germiston)

SHARED SERVICES OFFICE REQUIREMENTS

No	ITEM	Comments
2.1	2.1 One stop shop	This should space SARS, DTI, Home Affairs, Erkhurleni (Should be GIC, Ofentse to take the PRT for viewing)
2.2	2.2 One service area/ Reception	The reception will be for services
2.3	2.3 Management office: 30 staff - Open plan - Kitchen net	The has requested more space (Open plan facilities)

3. REGULATORY DIAMOND TRADE 1[TENANT 1]

	ITEM	Comments
3.1	Office Space - 130 staff	After our visit with the tenant, they actually need 3500m ²
3.2	Own reception	
3.3	Kitchen net	
3.4	Boardroom	
3.5	Diamond exchange/ Export center Registration board Tender room Security	
3.7	Storage facility or high security strong room	

4. STATE DIAMOND TRADE 2 [TENANT 2]

No.	ITEM	Comments
4.1	Logistics	the client, requested more space of 450m ²
4.2	Certification of diamonds	

4.3	Courier relation	
4.4	Possible tenants (banking)	

Refer to Annexure B for tender drawings & Specifications

Arc_100	Site Plan
Arch_102	First Floor
Arch_103	Second Floor
Arch_R04	Roof Plan

C3.3 ENGINEERING

C3.3.1 Design

The designs have been done in accordance with South African building regulations and standards. Depending on the design type or discipline, the relevant standards according to SANS were observed. Due to unpredictability of the expected tenants to utilise the end product, partial and full safety factors were included in design loadings and inputs in order to avoid under-estimating and also as a measure of catering for future demands when designing the bulk earthworks and bulk reticulations within the site.

C3.3.2 Ekurhuleni MM Design Standards

All designs were done to comply with Ekurhuleni Metropolitan Municipality (EMM). Close liaison was kept with the client and the municipality in order to produce final drawings to a standard acceptable by Ekurhuleni MM. The liaison with Ekurhuleni MM is done per department, town planning, water, sanitation, roads, storm water and also the energy department.

C3.3.3 Contractor's Design

The contractor will be allowed to improve on or recommend deviations from the designs to a reasonable difference with discussion and permission from the Engineer, or Engineer's representative. For the latter, such changes are to be requested from the Engineer and where permission is given, the changes are recorded on the construction drawing for as-built drawings update. Suggestion from the contractor may come due to identifying better construction techniques, and or picking up of construction challenges based on the construction drawings design.

C3.3.4 Drawings

Figured dimensions only to be used. Coordinates based on wgs84 whereas levels are based on MSL datum. Discrepancies, errors and omissions are to be reported to the Engineer immediately when they become evident. Shop drawings to be submitted for approval prior to manufacture and installation. Copyright and right of, and production of the set of construction drawings to be issued or any portion thereof is reserved by The Consultant.

Refer to Annexure A for tender drawings & Specifications

List of drawings:

Drawings will be available electronically from Architect and Engineers.

Civil & Structural

1002_ST100_L001 - Foundation Layout
1002_ST100_L002 - Surface Bed Layout
1002_ST100_L003 - First Floor Layout
1002_ST100_L004 - Second Floor Layout
1002_ST100_L005 - Roof Layout
1002_ST100_L006 - Sections Sheet 1
1002_ST100_L007 - Sections Sheet 2
1002_ST100_L008 - 3D Views
1002_ST100_D001 - Lift Shaft(s) Layout & Details
1002_ST100_D002 - Staircase(s) Layout and Details
1002_ST100_D003 - Structural Steel Roof Layout and Details
1002_ST100_D004 - Access Staircase Layout and Details
1002_ST100_D005 - Fire Escape Staircase Layout and Details

DETAIL ELECTRICAL INSTALLATIONS SPECIFICATION

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C 3.4 DETAIL ELECTRICAL INSTALLATIONS SPECIFICATION

1. GENERAL

This specification covers all aspects of the electrical installations.

This document must be read in conjunction with the Civil, Structural and Architect's drawings. Any discrepancies must be brought to the notice of the Electrical Engineer before installation commences.

1.1 Electrical Engineers' Drawings

The Electrical Engineer's drawings for this project are listed below:

DRAWING NO DESCRIPTION

Lighting Layouts

Power Outlets Layouts

Distribution Board Layouts

Communication and Security Systems Layouts

1.2 Architectural, Civil and Structural Engineers' Drawings

A set of Architectural, Civil and Structural drawings for this project is available for inspection on site; the Electrical Contractor shall familiarize himself with the contents of these drawings and all building construction details.

2. SCOPE OF WORKS

The scope of the installations shall comprise of:

- Distribution board installations
- Cable installations
- Lighting installations
- Power installations
- Telephone and data outlets installations
- Wiring and wireways

- Earthing, bonding and lightning protection system
- Labelling
- Site supervision
- Production of “as-built” drawings

3. STANDARD SPECIFICATIONS, REGULATIONS AND CODES

3.1 The latest edition, including all up to date amendments of the following specifications, publications and codes of practice shall be read in conjunction with this specification and shall be deemed to form part thereof:

- 3.1.1 SANS 10142-1: The Wiring of Premises: Part 1 – Low Voltage Installations
- 3.1.2 SANS 10114-1: Interior Lighting Part 1 – Artificial Lighting of Interiors
- 3.1.3 SANS 10114-2: Interior Lighting Part 2 – Emergency Lighting
- 3.1.4 Occupational Health and Safety Act (Act 85 of 1993)
- 3.1.5 SANS 10400: The application of the National Building Regulations
- 3.1.6 SANS 10313: The protection of structure against lightning
- 3.1.7 SANS 10139: Fire Detection Systems for Buildings: Design Installation and Maintenance
- 3.1.8 SANS 10222: Electrical Security Installations SANS 10142-1 – Wiring of premises 2003
- 3.1.9 Manufacturer's specifications and installation instructions

3.2 The Contractor shall ensure that all safety regulations and measures are applied and enforced during construction, repair and maintenance work on cabling, wiring, distribution boards, luminaires and power outlets.

3.3 The appointed electrical Contractor shall be registered with the electrical contracting board (ECB).

4. CONSTRUCTION PROGRAMME

The Contractor's programme shall be co-ordinated with the programme of the Principal Contractor and shall include allowance for adverse weather conditions, builders holidays and public holidays as specified in the Principal Contractor's conditions of contract.

5. STORAGE

The Contractor shall provide adequate and safe storage for all materials. All materials shall be stored or stacked in positions that will not interfere with other work in progress in the area.

6. QUALITY OF MATERIALS

6.1 All materials supplied or utilised under this contract shall be new and unused. Only materials of first class quality and finishes shall be utilised. All materials shall be subject to prior approval by the Engineer.

6.2 All materials shall comply with the relevant SABS specifications.

6.3 All materials shall be unconditionally guaranteed for a period of 12 months from the date of practical completion, which is first hand over. Where Supplier's guarantees are of a shorter duration than 12 months, the Contractor shall unreservedly agree to the extension and cession of all warranties and guarantees.

6.4 The Contractor shall replace any materials that are found to be defective during the 12 months defects liability period.

7. COMPETENCE OF PERSONNEL, WORKMANSHIP AND STAFF

7.1 All work shall be executed and supervised by suitably qualified staff. Only "ACCREDITED PERSONS" shall be permitted to carry out and supervision work.

7.2 The Contractor shall at all times have an adequate number of employees available during the construction period to ensure that the electrical work does not delay the construction programme.

7.3 The works shall be supervised by a registered "three-phase Master ELECTRICIAN".

8. CO-ORDINATION OF SERVICES

The Contractor shall be responsible for the onsite co-ordination with the Principal Contractor and other sub-contractors. Due allowance shall be made for this liaison and on-site co-ordination.

9. FINISHING AND TIDYING

9.1 In view of the concentration of construction and other activities likely to be experienced during the Contract period, progressive and systematic finishing and tidying will form an essential part of this Contract. Under no circumstances will soil, rubble, materials, equipment or unfinished operations be allowed to accumulate in such a manner as to unnecessarily impede the activities of others. In the event of this occurring the Employer will have the right to withhold payment for as long as may be necessary in respect of the relevant Works in the area(s) concerned, without thereby prejudicing the rights of others to institute claims against the Contractor on the ground of unnecessary obstruction.

9.2 Finishing and tidying shall therefore not be left to the end of the Contract, but shall be a continuous operation.

10. EXISTING WORKS AND SERVICES

The Contractor is responsible for obtaining information regarding services and the existing works which may be affected by the new works. Activities and operations regarding the method to be used for the safeguarding of any services and existing works that may encountered during construction shall be discussed with and have the approval of the Project Manager prior to commencement.

The cost of all precautionary measures, which may be necessary to ensure the safety of such services and existing works, as well as the protection of all persons, shall be borne by the Contractor. Any alteration to services, which may be required, shall be carried out by the Authority concerned at the expense of the Contractor. The Contractor shall be held responsible for any damage, injury or accident caused as a result of his failure to take the necessary precautionary measures.

11. SUPERVISION

Work shall at all times be subject to full time supervision by a qualified and experienced Site Agent. This representative must be authorised and competent to receive instructions on behalf of the Contractor.

12. PROTECTION OF OTHER SERVICES AND STRUCTURES

12.1 The Contractor shall take all the necessary precautions to protect existing services, finishes and structures during the execution of the Contract, and shall be fully responsible for all repairs and damages thereto. The cost for any repairs of damages shall be borne by the Contractor.

12.2 The Contractor shall also exercise extreme care when excavations are made, to avoid damage to existing or newly installed services. Any damages to other services shall be rectified forthwith and the cost for the rectification thereof will therefore be recovered from the Contractor.

13. LV CABLE INSTALLATION

13.1 General

13.1.1 All LV power cables shall have stranded copper conductors and shall be of the 600/1 000V PVC/SWA/PVC type.

13.1.2 Where sleeves are not specified, cables shall be laid directly in the ground. Minimum laying depths shall be 650 mm below final ground level unless otherwise specified, and routes shall be as indicated on the drawings.

13.1.3 All trenching, including excavations, bedding layers, shoring and prevention of water logging, drainage of excavations, backfilling and compaction of trenches form part of this contract.

The Contractor shall be deemed to have allowed for the laying of cables, terminal boxes, glands and termination of cables. Trenches shall be compacted to a minimum of 93% of modified AASHTO density during backfilling.

13.1.4 The Contractors shall take cognisance of the fact that other services might be installed along the same routes as the cables. The Contractor shall, before commencing with any excavations, peg out the proposed cable route and confirm it with the Engineer.

13.1.5 Positions of cable markers shall be pegged on site in collaboration with the Engineer. The wording of the labels shall be provided by the Engineer.

13.1.6 The Contractor is to note that some cables will be installed underneath paved areas. The Contractor shall be required to provide appropriate machinery for this type of installation and shall make sufficient allowance for hiring of such machinery and the remedial civil works associated with this installation.

14. DISTRIBUTION BOARDS

14.1 Various LV distribution boards are to be supplied and installed under this contract. The main LV board shall be free-standing, while others shall be surface-mounted. HVAC distribution boards on the roof, if any, shall be weatherproof.

14.2 Distribution boards shall comply with the requirements of IEC 439-1.

14.3 The distribution board requirements are as shown on the schematic drawings. Note the 5 kA minimum fault level. Generally the cascading system has been specified for sub distribution boards and sub local DB's. Contractors shall draw the attention of their board manufacturers to this aspect, and proper labelling installed.

14.4 Electrical Contractors are advised to order the distribution boards and equipment from a reputable Manufacturer, as inferior boards will not be accepted.

14.5 Shop drawings shall be submitted to the Engineer for formal approval before any manufacture commences.

14.6 It shall further be noted that late approval of drawings and distribution boards due to non-compliance with the specification will not relieve the Electrical Contractor from his obligations to complete the installation according to the programme. No claims for delays or extension of time in this regard, will be entertained.

14.7 All phase, neutral and earth bus bars shall be adequately sized to accept all circuits and connections.

14.8 Door hinges shall be of the Perano type. Steel doors shall be padlockable.

14.9 The front face panels shall be secured by means of the Perano type catches. Catches with slots or square key formats will not be acceptable.

14.10 The distribution boards shall be powder coated and colour shall be as specified. Powder coat quality shall be verified during distribution board tests.

14.11 All distribution boards must be inspected and accepted in the factory prior to dispatching. The exact wording of the engraved labelling shall be finalized during the factory inspection.

15. POWER SKIRTING; CABLE TRAYS, CONDUITS and TRUNKING

15.1 Power skirting

15.1.1 Power skirting shall be three compartment, two cover steel powder coated.

15.1.2 Power skirting shall be supplied complete with purpose-made faceplate equipment and all the necessary accessories including covers, bends, clip-on partitions, etc.

15.1.3 Power skirting shall be used for power, data and telephone wiring and outlets shall be similar to the CLIPSAL LS 2000 range.

15.1.4 The power skirting shall be linked to the distribution board by conduit installed to a pre-manufactured conduit entry unit behind the power skirting. The power skirting shall be clearly marked on the front cover "conduit entry". The conduit links shall be routed inside chipped floor screed and as approved by the electrical engineer.

15.1.5 The same arrangement shall apply at positions where power skirting are interlinked. A minimum of four 25 mm diameter PVC conduits shall be installed in each case; i.e. power 2x, data 1x, and telephone 1x. The Contractor shall allow in his price for drilling through walls and chipping in the floor for the interlinks as indicated on drawings.

15.1.6 Any resulting damage to completed finishes will be rectified to the satisfaction of the Principal Contractor and the Project manager, at the Contractor's expense.

15.1.7 Extreme accuracy will be required during marking out to ensure that the conduit entries exiting the floor slab and walls are positioned correctly.

15.2 Cable trays

15.2.1 Steel cable trays or wire mesh, where required, shall be the hot dip galvanised Cabstrut type complete with elbows, tees and covers. The width shall be as specified on the relevant drawings.

15.3 Conduits

15.3.1 Internal conduits shall be PVC and installed flush inside walls and slabs and surface mounted in ceiling voids. No conduit installation on the wall surfaces shall be permitted in the building.

15.3.2 Conduit work under open roof structures and inside ceilings shall be done in a rectangular grid pattern. Steel saddles shall be used inside ceilings. Caddy clamps shall be used on roof purlins, maximum spacing of saddles and clamps shall be 750 mm.

15.3.3 All external conduits exposed to sunlight or rain shall be Bosal-type galvanised steel. External draw box covers shall be sealed with white silicone after the installation has been completed.

15.3.4 Chasing where applicable, shall only be done with a twin-blade chasing angle grinder or approved methods. Prior approval must first be obtained from the Architect or Engineer before any chasing work is carried out.

15.4 Trunkings

15.4.1 Steel trunking, where required, shall be the hot dip galvanised Cabstrut type complete with elbows, tees and covers. The width shall be a minimum of 76mm deep x 127 mm width.

16. LIGHTING INSTALLATION

16.1 General

16.1.1 Light fittings shall be delivered to site in boxes as packed by the Manufacturer. When the installation is handed over, all light fittings shall be in a working condition, new and unused.

16.1.2 The permanent light fittings intended for installation shall not be used for temporary lighting during construction. The certificate of completion for the installation will not be finalised, unless all light fittings and lamps are in working order.

16.1.3 All fluorescent type light fittings shall be equipped with generally 1200 mm long 26 mm diameter tubes, and with a colour temperature of 4300 K (cool white) and minimum colour rendering index (Ra) of 64.

The Engineer will reject unmarked lamps. All costs to replace these lamps with marked lamps will be for the Electrical Contractor's account.

16.1.4 All light fittings and light fitting components shall be approved by the Engineer and capacitors and ballasts shall bear the SABS mark of approval.

16.1.5 Fluorescent tubes shall have bi-pin end cap arrangements and shall fit into telescopic spring assisted lamp holders to ensure that the lamps are always secure.

16.1.6 The metal body parts shall be finished in white epoxy powder coating for maximum reflectance.

16.1.7 Ballasts shall be of the electronic type and shall be power factor corrected to ensure a power factor better than 0,9.

16.1.8 The Contractor shall submit samples for approval of all types of light fittings to the Engineer prior to procurement thereof.

16.2 Light switches

16.2.1 Light switches shall be rated at 16A, similar or approved equal to Clipsal S2000 manufacture, complete with white cover plates.

16.2.2 To light internal office spaces, lighting shall generally be provided through group control light switches installed either at entrance to the Blocks or at lift lobbies.

16.2.3 Safety lighting shall be installed above exit doors and at staircases. The general lighting shall further be provided for different settings of the client requirements. A control lighting station shall be provided.

16.3 Schedule of luminaires:

All light fittings shall be supplied complete with lamps.

Type	Description
------	-------------

Type A1	Similar or BEKA Rondo LED 18W Circular Aluminium Reflector Downlight, SANS Approved.
---------	--

Type B 1	Similar or Beka Dari LED 35W 600mm x 600mm Ceiling Panel, SANS Approved.
----------	--

Type C1	Similar or BEKA Dari LED 35W 600mm x 600mm Surface Mounted IP65, SANS Approved.
---------	---

Type D1	Similar or Beka Solo LED 12W Decorative Anti Glare Downlight, SANS Approved.
---------	--

Type E1	Similar or BEKA Series 31 LED 20W Bulkhead, SANS Approved.
---------	--

Type F	Similar or BEKA LED Tech LED 143W Lowbay Luminaire, SANS Approved.
--------	--

Type G	Similar or Beka Led Lume-Midi 144W High Performance Street Light, SANS Approved. Mounted on a 8m to 10m mounting height Fibre Glass Beka Poles.
--------	---

Type H	Similar or BEKA ZELA LED 55W Post Top, SANS Approved.
--------	---

Type I	Similar or BEKA VAPOURLINE LED 65W Industrial Luminaire, SANS Approved.
--------	---

Type A2 (Emg.)	Same as Type A1 with 1 hour Battery Back-Up
----------------	---

Type B2 (Emg.)	Same as Type B1 with 1 hour Battery Back-Up
----------------	---

Type C2 (Emg.)
Same as Type C1 with 1 hour Battery Back-Up

Type D2 (Emg.)
Same as Type D1 with 1 hour Battery Back-Up

Type E2 (Emg.)
Same as Type E1 with 1 hour Battery Back-Up

Type X

Illuminated exit sign luminaire with 2 x PL9W lamps and emergency control gear for 1hr battery similar to Beka type RT 0209/KSP HYDRA, 1 hour duration

PHOTO CELL (In an Empty Bulkhead Fitting)

17. POWER OUTLETS

17.1 For the power installation, the Contractor shall be responsible for: -

- Supply and installation of 16A switch socket outlets – recessed in wall or installed in power skirting.
- Supply and installation of isolators for fixed equipment, geysers, aircons, and hand dryers. For wall
- console HVAC units 20A double pole cordgrip isolators installed surface mounted shall be used.

For HVAC units exposed to weather weatherproof isolators shall be installed.

- Wiring of all circuits back to the DB's.
- Labelling of all outlets as specified.
- Testing of all circuits.

17.2 Socket outlets

17.2.1 Wall-mounted socket outlets shall be similar or approved equal to 16A Legrand or Clipsal S2000 type complete with cradle and white socket outlet cover plates for normal power.

17.2.2 Single and double socket outlets shall each be mounted in a flush-mounted in a horizontal 100 x 100mm wall box or in the power skirting.

17.3 Isolators

17.3.1 Isolators shall be 20A DP cordgrip mounted in power skirting or surface mounted and shall be similar and equal to CLIPSAL S2000.

17.3.2 Isolators exposed to weather shall be weatherproof rated, minimum IP56.

18. TELEPHONE OUTLETS

18.1 The telephone termination panel shall be surface mounted 300 x 300 steel with door and fitted with a Supawood 19mm backboard.

18.2 Outlets shall be a combined Clipsal RJ 11 and RJ 45 data and telephone outlet.

18.3 Outlets shall be flush mounted in power skirting.

18.4 The connections between the telephone termination panel and the outlets shall be done by means of 25mm diameter PVC conduits.

18.5 2,5mmØ galvanised draw wire shall be installed in all telephone conduits. Cabling shall be done by others.

19. WIRING

19.1 Surfex or Norse cable shall not be accepted on this site.

19.2 All circuits shall be wired from fresh unused coils of red, white, blue and black conductors. The colours of conductors shall correspond to the phase from which that circuit is fed. An alternative colour may be used for the switched conductor between the light switch and the light fitting. The use of insulation tape to indicate phases will not be accepted.

19.3 Wiring shall not be drawn into conduit until the conduit installation has been completed, fitted with bushes and all moisture and debris have been removed.

19.4 Joints of any kind will not be permitted in wiring. No more than 2 single or 1 three phase circuit may be drawn into any conduit.

19.5 All sockets and switches shall be marked by suitable markers indicating the circuit (e.g. L1 on both line and neutral conductors) at either end.

Circuit	Minimum conductor (size)	
	Phase (mm ²)	Earth (mm ²)
Lighting power supply	2,5	2,5
Switched socket outlets	4,0	2,5
Isolators	As approved by the engineer	

20. EARTHING AND BONDING

20.1 The Electrical Contractor is to ensure that the installations covered in this document are effectively earthed and bonded in accordance with the requirements of the SABS 0313.

20.2 An earth mat will be installed outside the substation to ensure an earth resistance of less than 1 Ohm.

21. LABELLING OF CIRCUITS

All outlets, isolators and light switches shall be labelled with engraved labels on the cover plate. The label shall indicate the supply DB and circuit number (e.g. DB-GC-L5). Wiring inside the DB shall bear Gravoplast labels.

22. INSPECTIONS

22.1 The Electrical Engineer or Client's representative will inspect the installations at any time. All inferior, unsuitable, unacceptable or rejected work shall, if indicated by the inspecting officers or the Engineer, be removed and shall be rectified by the

Electrical Contractor at his own expense. Under no circumstances will these inspections relieve the Electrical Contractor of his obligations in terms of the document nor will these inspections be regarded as final approval of the works or portions thereof.

22.2 Where, inspections are requested by the Contractor, the Electrical Engineer or Client's inspection shall only be carried out after the Contractor has carried out his own preliminary inspection to ensure that the Works are completed and comply with the documents. The Electrical Engineer or Client's inspection shall therefore not be regarded as supervision, fault listing, quality assurance or site management.

23. SITE TESTS AND COMMISSIONING

23.1 The following minimum site tests shall be carried out by the Contractor and the results presented to the Engineer:

23.1.1 insulation resistance between all conductors and earth

23.1.2 insulation resistance between all conductors and neutral

23.1.3 insulation resistance between all 3 phase conductors

23.1.4 polarity of light switches

23.1.5 earth leakage protection

23.2 After submission of the test results, the Contractor shall notify that the installation is complete, tested and in working order. The Client or the Engineer will witness the re-testing of the installation.

23.3 Complete commissioning, test and inspection data of all systems shall be provided for each installation individually and shall comprise, but not be limited to the following:

- (a) Distribution boards and cabling
- (b) Lighting system
- (c) Small power and appliances
- (d) Earthing, bonding and lightning protection system

24. CERTIFICATE OF COMPLIANCE

24.1 All work covered under this contract or that has to be carried out on site, must be executed by a qualified and fully representative person. Only persons registered as an “installation electrician” will be accepted to carry out the installation work. After completion of the contract the Contractor shall submit to the Engineer a certificate of compliance in terms of legislation prior to final payment being processed.

24.2 One Certificate is required per electrical DB completed, and the certificate shall cover all downstream works.

25. AS-BUILT DRAWINGS AND DOCUMENTATION

The Contractor shall prepare as-built drawings for cable trenches, earthing cable layout as well as all the conduit routes, inventory list and Operating-and-Maintenance manuals.

The Operating and Maintenance Manual to be compiled shall be structured and shall at least include the following:

Description of installation

(a) Distribution boards and cabling

The complete system description of the distribution boards and cabling shall be done for each installation individually. The system description shall be presented in a tabular format and shall contain, but not be limited to the following:

Item	Distribution board description and location	Feed source	Type (Surface / Recessed)	No of ways	Size and kA rating of main circuit breaker	Description of sub-distribution boards	Size and type of supply cable	Minimum kA rating of circuit breaker

(b) Lighting system

The complete system description of the lighting system shall be done for each installation individually. The system description shall be represented in a tabular format and shall contain, but not be limited to the following:

Item	Circuit description	Switching arrangement	Luminaire detail	Lamp detail

(c) Small power and fixed appliances

The complete system description of the small power and fixed appliances shall be done for each installation individually. The system description shall be represented in tabular format and shall contain, but not be limited to the following:

Item	Circuit description	Source and type of supply	Switching arrangement	Description of appliance	Location of appliance	Rating of appliance	Type and rating of isolating switch

(d) Earthing and lightning protection

The complete system description of the earthing and lightning protection system shall be done for each installation individually.

The system description shall be presented in tabular format and shall contain, but not be limited to the following:

Item	Type of installation	Quantity and positions of earth electrodes	Type and size of earth electrode	Size and type of conductors	Type of joint

26. 12-MONTH DEFECTS LIABILITY PERIOD

26.1 The equipment and installation supplied under this contract shall be guaranteed for a period of twelve months from date of acceptance by the Engineer in all respects and commissioned for continuous service. The tender price shall include for the above.

26.2 The defects liability will be for a period of twelve months, calculated from the date of issue of the Certificate of completion by the Engineer. Retention funds will be reduced to 5% upon the commencement of the defects liability period. The balance of the retention money will be paid out after the lapse of the defects liability, provided the installation has in the opinion of the Engineer been in satisfactory working order during this period.

26.3 The Contractor shall be responsible for the replacement of all missing draw wires and conduit accessories during the defects liability period.

C3.2.5 Design procedure

The designs were done in a three stage approach; attaining of design demand in terms of expected populations and service requirements for the precinct, inputting of design loads onto different practical models and generating results from the modelling or simulations. The design methodologies were traditional and included modern best practice standards in order to be raw material considerate during the construction phase.

The design methodologies requiring specialist inputs such as topographical surveys, geotechnical investigations and traffic impact assessments were planned for attaining such specialists. Recommendations from the specialist fed directly into the designs while including the visual assessments on site.

C3.5 PROCUREMENT

C3.5.1 Preferential Procurement

In line with government policies to empower emerging previously disadvantaged businesses, GEP would prefer that 30% of the contract is procured from local emerging contractors. The Contractor shall be liable for the acts, defaults and negligence of any subcontractor, his agents or employees as fully as if they were the acts, defaults or negligence of the Contractor.

C3.5.2 Subcontracting

The contractor is to submit a list of all his intended subcontractors as part of this submission. The contractual relationship between the Contractor and any subcontractors selected by the Contractor in consultation with the Employer in accordance with the requirements of and a procedure set out in the Scope of Work, shall be the same as if the Contractor had appointed the subcontractor in terms of JBCC's Principal Building Contract.

C3.6 CONSTRUCTION

C3.6.1 Site establishment

The contractor shall establish his construction camps, offices, workshops and testing facilities on the site in a manner that does not adversely affect the environment. However, before construction can begin, the contractor shall submit to the engineer for his approval, plans of the exact location, extent and construction details of these facilities and the impact mitigation measures the contractor proposes to put in place.

The plans shall detail the locality as well as the layout of the waste treatment facilities for litter, kitchen refuse, sewage and workshop-derived effluents. The site offices should not be sited in close proximity to steep areas, as this will increase soil erosion. Preferred locations would be flat areas along the route. If the route traverses water courses, streams and rivers, it is recommended that the offices, and in particular the ablution facilities, aggregate stockpiles, spoil areas and hazardous material stockpiles are located as far away as possible from any water course as possible. Regardless of the chosen site, the contractor's intended mitigation measures shall be indicated on the plan. The site plan shall be submitted not later than the first site meeting. Detailed, electronic colour photographs shall be taken of the proposed site before any clearing may commence. These records are to be kept by the engineer for consultation during rehabilitation of the site. Read with COLTO Specification 1302(a), 1402 (e).

C3.6.2 Plant & Construction equipment

The minimum required construction equipment that will be used for this contract is as follows but not limited to the list below:

C3.6.3 Existing services

Existing services in and around the site have been identified through the topographic survey and Ekurhuleni MMs GIS information. Great care should be taken in protecting these services and no excavations can take place without approved wayleaves. The Contractor to make sure that these services have been clearly identified and wayleaves are in place before commencing with the groundworks.

C3.7 MANAGEMENT OF THE WORKS

C3.7.1 Generic Specification

C3.8.2 Aids awareness

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

DEFINITIONS AND ABBREVIATIONS

DEFINITIONS

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 total.

ABBREVIATIONS

HIV	:	Human Immunodeficiency Virus
AIDS	:	Acquired Immune Deficiency Syndrome
STI	:	Sexually Transmitted Infection

HIV/AIDS EDUCATION AND TRAINING

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, which are available from all Regional Offices of the Department of Public Works

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

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.

ENSURING ACCESS TO HIV/AIDS TESTING AND COUNSELLING FACILITIES AND TREATMENT OF SEXUALLY TRANSMITTED INFECTIONS (STI)

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

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

ANNEXURE A (TENDER DRAWINGS & SPECIFICATIONS)

Drawings will be available electronically from Architect and Engineer

Name of Bidding Entity: _____

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1 PART C4: SITE INFORMATION

 1.1 NATURE OF GROUND AND SUBSOIL CONDITIONS

PART C4: SITE INFORMATION

Attached Geotechnical Investigation Report

**GAUTENG INDUSTRIAL DEVELOPMENT ZONE:
GEOTECHNICAL INVESTIGATION FOR THE PROPOSED JEWELLERY MANUFACTURING
PRECINCT SITE, KEMPTON PARK, GAUTENG**

FOUNDATION INVESTIGATION REPORT

PREPARED FOR



BY

DAC

DEVENG AFRICA CONSULTING
Consulting Engineers and Project Managers

Ayo Obisanya, PrEng, PrCM
Geotechnical Engineer

AWO
Report No. DA02 - 168 - 01
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GAUTENG INDUSTRIAL DEVELOPMENT ZONE: GEOTECHNICAL INVESTIGATION FOR THE PROPOSED JEWELRY MANUFACTURING PRECINCT SITE IN KEMPTON PARK, GAUTENG

EXECUTIVE SUMMARY

Deveng Africa Consulting (Pty) Ltd. (DAC) was requested by **Silverhorns Consulting** to carry out a geotechnical subsurface investigation to determine the founding conditions with respect to the bearing capacities obtainable at the various building platforms particularly, building platforms 1, 3 and 6 already constructed at the site for the proposed jewelry manufacturing precinct in Kempton Park, Gauteng.

The objective of this investigation is to determine the founding conditions at this site for the proposed jewelry manufacturing precinct structures. Allowable bearing capacity of the various platforms investigated at this site are as indicated in Table 7-2-1 below. The test results have shown that the in-situ material at this site does possess the characteristics required of a competent founding material that provides sufficient bearing capacity for the proposed building structures. The recommended foundation design parameters as a result and analysis of this geotechnical site investigation are as indicated in the in Table 7-2-1 below:

Table 7-2-1 : Foundation Parameters – Proposed Jewellery Manufacturing Precinct site

Platform / Building No.	DPSH Position	Bearing Pressure	Foundation Type	Founding Depth
Platform 1/Bldg.6	1	Up to 300 kPa	Stiffened Strip	@ 0,9m minimum
Platform2/ Bldg.1,2&3	2	150 kPa	Stiffened Strip	@ 1,2m minimum
Platform 3/Bldg.11	3	150 kPa	Stiffened Strip	@1,8m minimum
Platform 4 / Bldg.12 & 13	4	150 kPa	Stiffened Strip	@ 1,2m minimum

**GAUTENG INDUSTRIAL DEVELOPMENT ZONE:
GEOTECHNICAL INVESTIGATION FOR THE PROPOSED JEWELLERY MANUFACTURING
PRECINCT SITE IN KEMPTON PARK, GAUTENG**

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**GAUTENG INDUSTRIAL DEVELOPMENT ZONE:
GEOTECHNICAL INVESTIGATION FOR THE PROPOSED JEWELLERY MANUFACTURING
PRECINCT SITE IN KEMPTON PARK, GAUTENG**

1.0 INTRODUCTION

Deveng Africa Consulting (Pty) Ltd. (DAC) was requested by **Silverhorns Consulting** to carry out a geotechnical subsurface investigation to determine the founding conditions with respect to the bearing capacities obtainable at the various building platforms particularly, building platforms 1, 3 and 6 already constructed at the site for the proposed jewelry manufacturing precinct in Kempton Park, Gauteng.

This report presents the results, analysis and recommendations as obtained from the field work which comprises the dynamic probe super heavy (DPSH) in-situ strength testing conducted at the platforms specifically indicated in the geotechnical site layout drawing number DA02-168-01 included in Appendix C of this report. Dynamic Probe Super Heavy testing were carried out at four (4) prioritised platforms as requested by the client to determine the allowable bearing capacities of the platforms as prepared to receive the proposed building structural loading as anticipated by the design. These in-situ tests were conducted by the appointed specialist geotechnical contractor, Geomechanics Group on 23 June 2017.

2.0 INFORMATION AVAILABLE

Mr. Thabo Munyai of Silverhorns Consulting CC. provided the background information and the physical location of the site. In addition to the information given on the physical location of the site, the following were also made available for this investigation

- The 1:250 000 scale geological map of the area (2628 East Rand)
- A locality map of the area
- A cut and fill layout plan of building platforms with drawing number JMP-BE-03 prepared by Phunga Consulting Engineers and dated July 2015.
- A copy of the existing preliminary geotechnical report as prepared by EARTHINVLAB dated April 2015.

3.0 OBJECTIVES OF THE INVESTIGATION

The purpose of the geotechnical investigation was to evaluate the subsoil conditions of the built-up platforms 1, 3 and 6 in terms of geotechnical and foundation design parameters that may be required, and to determine the allowable bearing capacities of the interested platforms to receive the proposed building structural loads. The scope of work and the objectives of this investigation include the following:

- to establish the prevailing geological conditions;
- to determine the allowable bearing capacity obtainable at the building platforms as prepared to receive the proposed building structural loads;
- to determine appropriate founding solutions for the proposed structures at the platforms;
- to comment on excavation characteristics for foundation for the proposed building structures; and
- to determine the founding depth at the platforms.

4.0 GEOLOGY AND SITE DESCRIPTION

According to sheet 2628 East Rand of the 1:250 000 scales published geological map of the areas, the site is underlain by the following geological formations:

A Sandstone, Shale and Coal bed of the Vryheid Formation of the Ecca Group belonging to the Karoo Sequence underlies the site. These have been weathered to form residual silty clayey sands with variable sandstone rock fragments under a cover of alluvial and, occasionally, slightly pedogenic soils. The site investigation indicates that the site is predominantly underlain by the rocks of the Dwyka formation which are diamictite and shale in the Ecca group. These were formed during the Permian age.

The area under investigation is within the boundaries of OR Tambo International Airport (ORTIA). ORTIA is located adjacent to the residential suburb of Bonaero Park, which is within the Kempton Park sub-urban area. Kempton Park lies in jurisdiction of Ekurhuleni Metropolitan Municipality. The Industrial Development Zone under investigation is accessed off Atlas Road either travelling north or south along the R21 Highway.



Figure 1: Site Locality Map

The longitude and latitude co-ordinates for the area are as follow: 26° 6.742'S and 28° 15.051'E respectively with an altitude of approximately 1676 m above sea level marks the beginning point of the site under investigation. The total size of the site area under investigation is approximately 7.42 hectares. The current situation at the site is shown in Figures 2 of this report.

The limited fieldwork of DPSH testing which was conducted on 23 June 2017 at this site consists of motorized in-situ strength testing at four (4) platform positions with the use of a DPSH machine. The test results are included in Appendix A of this report.

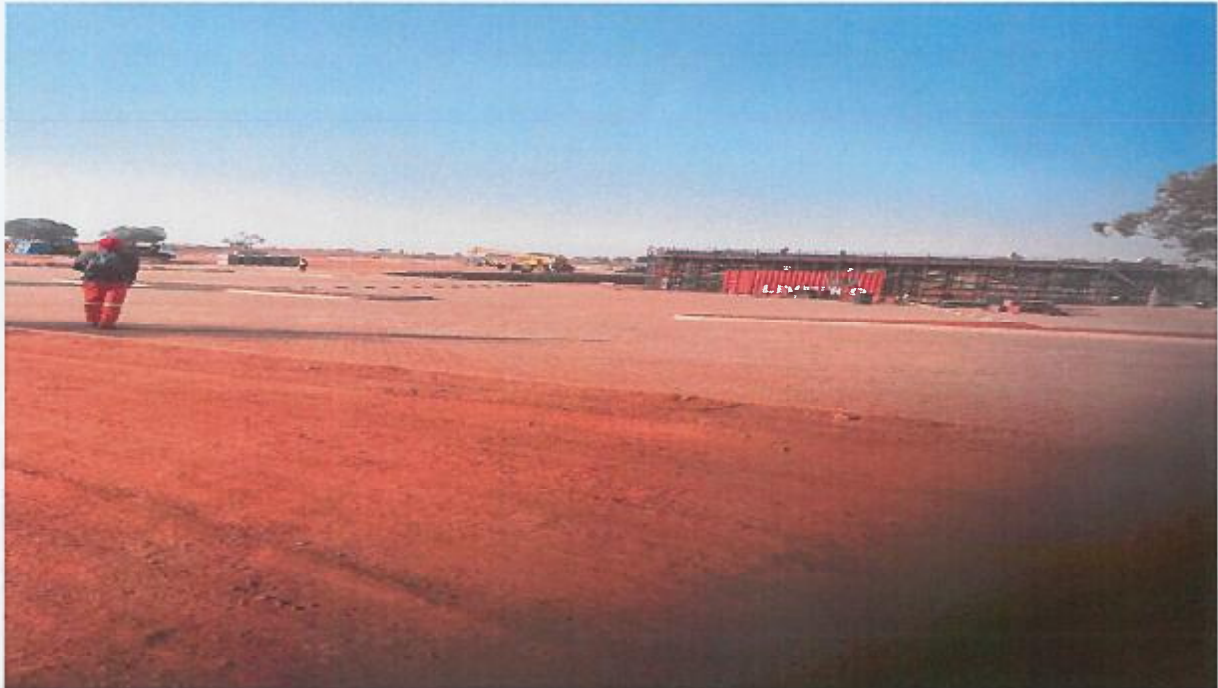


Figure 2: The current situation at the investigated site

5.0 METHOD OF THE GEOTECHNICAL INVESTIGATION

The method of this geotechnical site investigation consists of fieldwork of in-situ strength testing of the built-up platforms in preparation to receive the proposed building structures using the dynamic probe super heavy method of investigation. A typical DPSH Test Rig is as shown in Figure 3 in this section.

5.1 DYNAMIC PROBE SUPER HEAVY (DPSH) – In-Situ Testing

A 60° disposable cone, 50mm in diameter is fitted onto the bottom of a rod and driven into the ground by a 63.5 kg hammer falling through 762mm. the number of blows required to drive the cone through each successive 300mm of penetration is recorded and it provides an empirical indication of consistency. Refusal is achieved at a count of 100 blows without any significant penetration. The DPSH rig is designed so that tests can be undertaken in areas that are not readily accessible. The results are presented graphically and the blow counts can be taken as being roughly equivalent to the Standard Penetration Test (SPT) N value.

A total of four (4) dynamic probe super heavy tests were carried out at positions approximately representative of the investigated interest areas of built-up building platforms as shown in drawing number DA02-168-01 included in Appendix C of this report. The test positions are as indicated in Table 1 of this report.

In-situ Test Positions		
System: WG 29		
Name	Y - Coordinates	X - Coordinates
DSPH1	+75 022,142	+2889 767,492
DSPH2	+75 006,205	+2889 683,151
DSPH3	+75 945,436	+2889 793,451
DSPH4	+74 919,241	+2889 709,108

Table 1: In-Situ Test Positions at the Platforms



Figure 3: A Typical DPSH Test Rig from the GEOMECHANICS GROUP

6.0 GEOTECHNICAL CONSIDERATIONS

The proposed office buildings and other industrial workshop structures to be developed at this site will be influenced by the following considerations:

- The residual sandstone horizons which comprised gravely silty clayey sands is indicated to be low expansive on the van der Merwe curves.
- Weathered sandstone soils are associated with potentially collapsible material hence, appropriate degree of compaction must be applied to achieve the required density during construction through a process of wetting and drying.

- Groundwater or seepage was not encountered at any in-situ test positions at this site. The presence of closely-packed sandstone gravels in the soil matrix was indicative of a fluctuating water table during wet seasons therefore, a subsurface drainage system must be provided with the design of the foundation trenches for the building structures such that any propensity for the development of hydraulic pressures in the substructure can be eliminated.
- The soil material at this site will not be problematic with respect to excavatability or rippability, at least up to 2.0m below the platform surface, using conventional earth-moving equipment except at isolated situations where refusal conditions were encountered by the machine (dynamic probing penetrometer). The low plasticity index of the material in the vicinity of the site may prove to enhance excavability during construction.

In accordance to SABS 1200 excavation classifications, soft excavation conditions should be expected within all soils. The residual sandstone soil zone may however, be regarded as clayey excavation while excavation within the sandstone and shalestone bedrock horizons shall be regarded as 'hard' excavation. The residual sandstone is expected to be excavatable with a standard excavator to depths of approximately 3.0m. Blasting will not be an option for consideration at this site since soft to medium hard rock sandstone will be rippable with the application of a normal excavator.

6.1 Interpretation of Results – DPSH

DPSH 1					
Depth (m)	Blows/ 300mm	Consistency	Friction Angle(Approx.) (Degrees)	Allowable Bearing Capacity (kPa)	Typical Dry Density (kg/m ³)
0,0	0				
0,3	59	Very Dense	45	250	> 1 925
0,6	43	Dense	38	180	1 750-1 925
0,9	100	Very Dense	48	300	> 1 925

DPSH 2					
Depth (m)	Blows/ 300mm	Consistency	Friction Angle(Approx.) (Degrees)	Allowable Bearing Capacity (kPa)	Typical Dry Density (kg/m ³)
0,0	0				
0,3	45	Dense	38	180	1 750-1 925
0,6	11	Medium Dense	31	150	1 450-1 600
0,9	5	Very Loose	26	<50	< 1 450

1,2	13	Medium Dense	31	150	1 450-1 600
1,5	7	Very Loose	26	<50	< 1 450
1,8	14	Medium Dense	31	150	1 450-1 600
2,1	57	Very Dense	44	250	1 750-1 925
2,4	23	Medium Dense	33	150	1 600-1 750
2,7	26	Medium Dense	34	150	1 600-1 750
3,0	45	Dense	37	180	1 600-1 750
3,3	46	Medium Dense	37	150	1 600-1 750
3,6	63	Very Dense	45	250	1 750-1 925
3,9	100	Very Dense	48	300	> 1 925

DPSH 3					
Depth (m)	Blows/ 300mm	Consistency	Friction Angle(Approx.) (Degrees)	Allowable Bearing Capacity (kPa)	Typical Dry Density (kg/m ³)
0,0	0				
0,3	25	Medium Dense	33	120	1 600-1 750
0,6	10	Loose	29	<80	1 450-1 600
0,9	6	Loose	27	<50	< 1 450
1,2	7	Loose	27	<50	< 1 450
1,5	10	Loose	29	<50	1 450-1 600
1,8	12	Medium Dense	31	150	1 450-1 600
2,1	11	Medium Dense	31	150	1 450-1 600
2,4	12	Medium Dense	31	150	1 450-1 600
2,7	6	Loose	27	<80	< 1 450
3,0	2	Very Loose	26	<50	< 1 450
3,3	3	Very Loose	26	<50	< 1 450
3,6	2	Very Loose	26	<50	< 1 450
3,9	3	Very Loose	26	<50	< 1 450
4,2	26	Medium Dense	33	150	1 600-1 750
4,5	100	Very Dense	48	300	> 1 925

DPSH 4					
Depth (m)	Blows/ 300mm	Consistency	Friction Angle(Approx.) (Degrees)	Allowable Bearing Capacity (kPa)	Typical Dry Density (kg/m ³)
0,0	0				
0,3	86	Very Dense	48	280	> 1 925
0,6	26	Medium Dense	34	150	1 600-1 750
0,9	14	Medium Dense	32	150	1 450-1 600
1,2	18	Medium Dense	33	150	1 450-1 600
1,5	18	Medium Dense	33	150	1 450-1 600
1,8	22	Medium Dense	38	180	1 600-1 750
2,1	17	Medium Dense	32	150	1 450-1 600
2,4	14	Medium Dense	32	150	1 450-1 600
2,7	8	Loose	26	<80	< 1 450
3,0	14	Medium Dense	31	120	1 450-1 600
3,3	36	Dense	38	180	1 600-1 750
3,6	71	Very Dense	46	280	> 1 925
3,9	63	Very Dense	45	250	1 750-1 925
4,2	23	Medium Dense	33	150	1 600-1 750
4,5	100	Very Dense	48	300	> 1 925

7.0 DISCUSSION AND RECOMMENDATIONS

7.1 DISCUSSION OF RESULTS - Dynamic Probe Super Heavy (DPSH) Testing:

In order to ascertain sufficient information on the founding depth at this site, additional subsoil investigation was carried out using the Dynamic Probe Super Heavy (DPSH) penetrometer test to determine the depth of the competent horizon at the platforms for foundation placement purposes.

A total of four (4) DPSH penetrometer tests were carried out at the site at positions indicated on drawing number DA02-168-01 and included in Appendix C of this report. It was observed that refusal of the penetrometer was reached at a shallower depth of 1,0m in platform 1 (Building 6) test position which confirms a suitable founding depth, D_f at the 1,0m horizon at this platform. The founding depths were found to be different and deeper at the rest of the platforms tested as shown in the test results included in appendix A of this report.

Based on the field penetrometer test results (DPSH) obtained at each of the platforms on this site, the excavatability and rippability characteristics of the soil in the compacted built-up platforms was only assessed through the use of the dynamic probe super heavy testing rather than the use of a

TLB, the tractor-loader-backactor machine during this investigation in order to establish the prevailing bearing capacities of the various platforms at this site.

7.2 RECOMMENDATIONS

The objective of this investigation is to determine the founding conditions such as the allowable bearing capacities that can be obtained at the platforms to receive the proposed building loads. Allowable bearing capacity for the appropriate founding conditions for the proposed building structures will be as indicated in Table 7-2-1 below. The test results have shown that the in-situ material at this site does possess the characteristics required of a competent founding material that provides sufficient shear strength for the proposed structures at deeper depths.

7.2.1 FOUNDATIONS

The proposed building structures may be founded on the dense to very dense closely-packed residual sandstone as compacted encountered in all the test positions at the platforms. An allowable bearing capacity of 150kPa can be attained at a minimum depth of 1,0m or greater at all the platforms in the medium dense to dense sandstone horizon as indicated in Tables in section 6.1 of this report. An allowable bearing pressure of 300kPa or greater can be sustained by founding at deeper depths at the platforms. The following foundation parameters indicated in Table 7-2-1 below is recommended.

Table 7-2-1 : Foundation Parameters – Proposed Jewellery Manufacturing Precinct site

Platform / Building No.	DPSH Position	Bearing Pressure	Foundation Type	Founding Depth
Platform 1/Bldg.6	1	Up to 300 kPa	Stiffened Strip	@ 0,9m minimum
Platform2/ Bldg.1,2&3	2	150 kPa	Stiffened Strip	@ 1,2m minimum
Platform 3/Bldg.11	3	150 kPa	Stiffened Strip	@1,8m minimum
Platform 4 / Bldg.12 & 13	4	150 kPa	Stiffened Strip	@ 1,2m minimum

It is therefore recommended that:

- The test results have shown that the in-situ material on site is suitable for use as a construction material for the substructure.

- Cognizance must be taken of the susceptibility of the in-situ material to excessive ingress of water which can reduce the strength rapidly.
- All in-situ compaction carried out on this site must achieve 95% MOD.AASHTO degree of compaction. The evaluation of the founding conditions at this site has been conducted for the proposed structures through in-situ soil subsurface strength probing testing and **an allowable bearing pressure of 150kPa** is recommended averagely at the platforms, this must be confirmed during excavation.
- The suggested founding parameters indicated in Table 7-2-1 of this report are considered in the design of the footings for these structures.
- The strip footings for the proposed structures must be placed at a minimum depth below the compacted surface of the platforms as indicated in Table 7-2-1 of this report. The structure must be founded on competent soil material with a **maximum allowable bearing pressure of 150kPa**.
- The comments and recommendations contained within this report are based on a limited number of in-situ tests. It is, therefore recommended that all excavations and foundation trenches be inspected by a Competent Person to verify that the founding conditions are not at variance with what is described herein prior to commencement of construction.

8.0 REFERENCES

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APPENDICES

APPENDIX A: DPSH IN-SITU TEST RESULTS

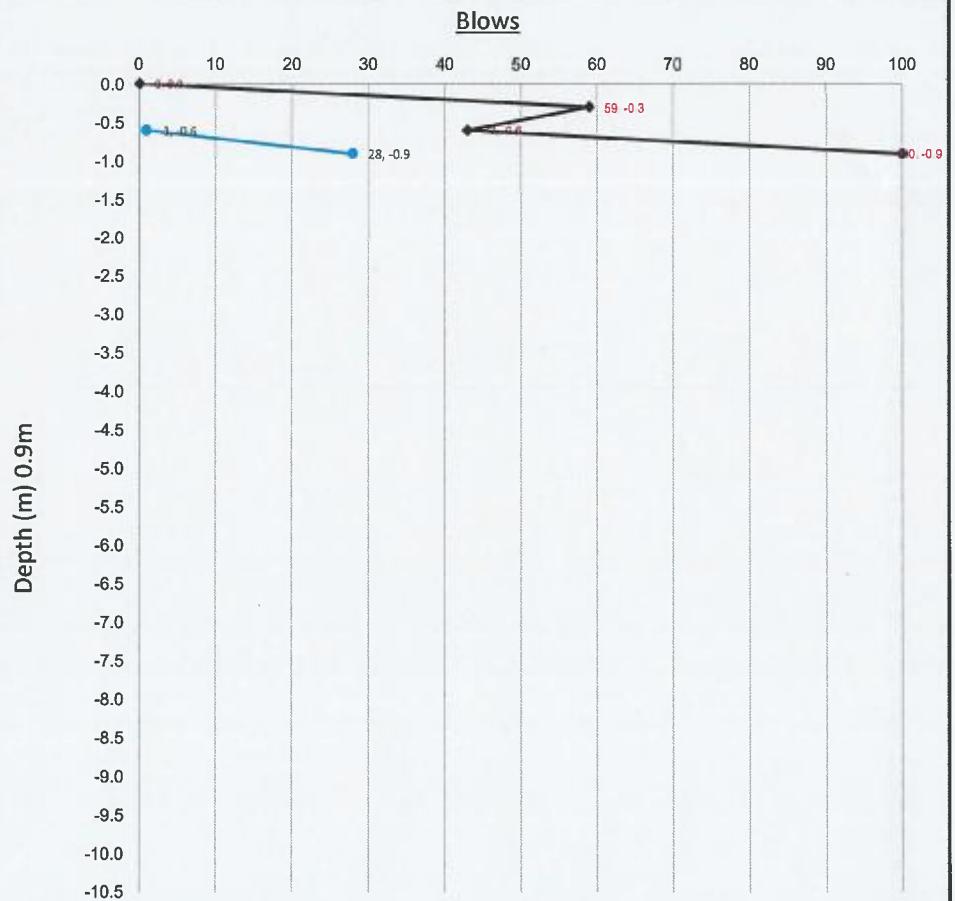
DYNAMIC PROBE SUPER HEAVY (DPSH) TEST RESULT



GEOMECHANICS (PTY) LTD

Client:	Deveng Africa	Date:	Friday, 23 June 2017
Project:	Kempton Park	Test position:	Platform 1
Cont. No:	GM/C/1427	Operator:	Brian Maseme
		Refusal Depth:	0,9m

Depth (m)	Number of Blows	Redrive Depth (m)	Redrive Number of Blows
0.0	0		
-0.3	59		
-0.6	43	-0.6	1
-0.9	100	-0.9	28
-1.2			
-1.5			
-1.8			
-2.1			
-2.4			
-2.7			
-3.0			
-3.3			
-3.6			
-3.9			
-4.2			
-4.5			
-4.8			
-5.1			
-5.4			
-5.7			
-6.0			
-6.3			
-6.6			
-6.9			
-7.2			
-7.5			
-7.8			
-8.1			
-8.4			
-8.7			
-9.0			
-9.3			
-9.6			
-9.9			
-10.2			
-10.5			



The Blue line represents the 600mm re-drive to check rod friction

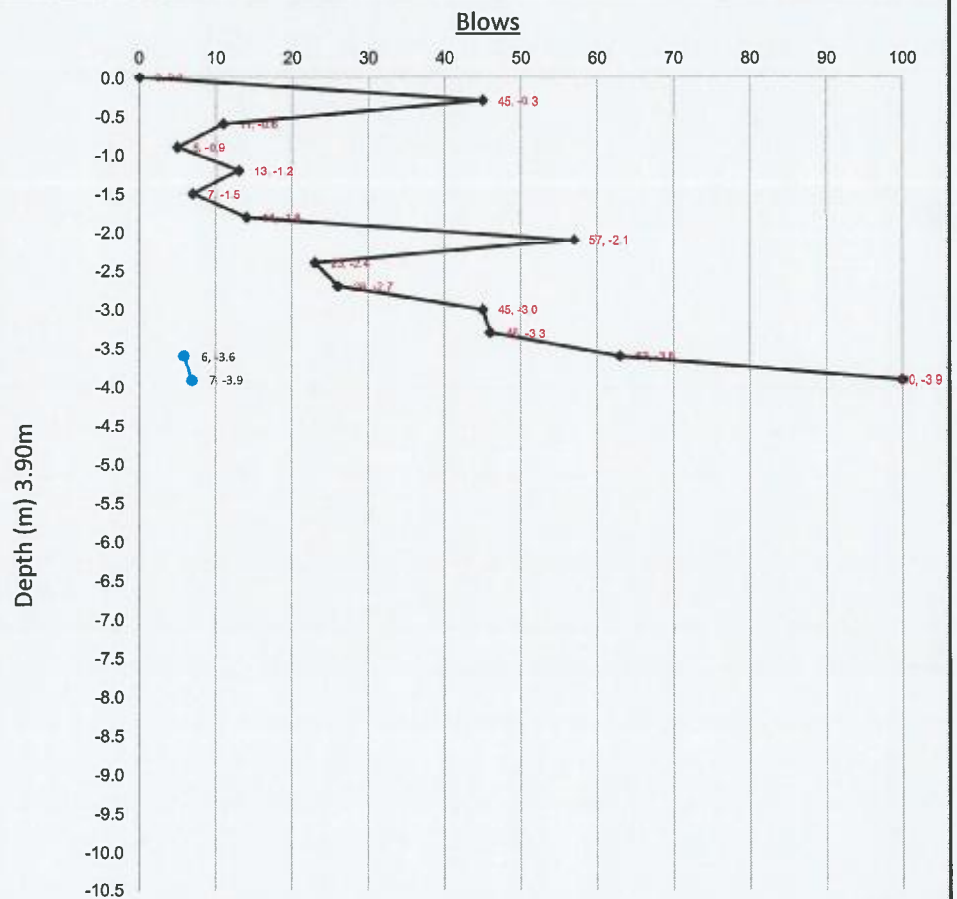
DYNAMIC PROBE SUPER HEAVY (DPSH) TEST RESULT



GEOMECHANICS (PTY) LTD

Client:	Deveng Africa	Date:	Friday, 23 June 2017
Project:	Kempton Park	Test position:	Platform 2
Cont. No:	GM/C/1427	Operator:	Brian Maseme
		Refusal Depth:	3.90m

Depth (m)	Number of Blows	Redrive Depth (m)	Redrive Number of Blows
0.0	0		
-0.3	45		
-0.6	11		
-0.9	5		
-1.2	13		
-1.5	7		
-1.8	14		
-2.1	57		
-2.4	23		
-2.7	26		
-3.0	45		
-3.3	46		
-3.6	63	-3.6	6
-3.9	100	-3.9	7
-4.2			
-4.5			
-4.8			
-5.1			
-5.4			
-5.7			
-6.0			
-6.3			
-6.6			
-6.9			
-7.2			
-7.5			
-7.8			
-8.1			
-8.4			
-8.7			
-9.0			
-9.3			
-9.6			
-9.9			
-10.2			
-10.5			



The Blue line represents the 600mm re-drive to check rod friction

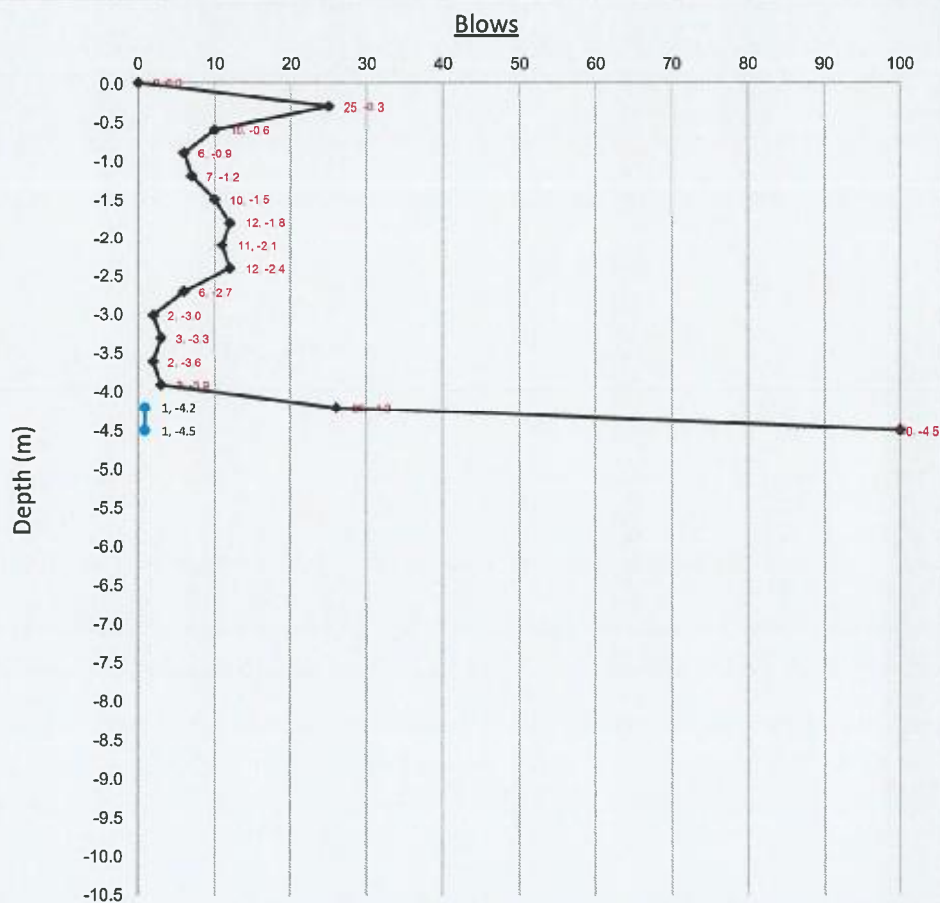
DYNAMIC PROBE SUPER HEAVY (DPSH) TEST RESULT



GEOMECHANICS (PTY) LTD

Client:	Deveng Africa	Date:	Friday, 23 June 2017
Project:	Kempton Park	Test position:	Platform 3
Cont. No:	GM/C/1427	Operator:	Brian Maseme
		Refusal Depth:	4.50m

Depth (m)	Number of Blows	Redrive Depth (m)	Redrive Number of Blows
0.0	0		
-0.3	25		
-0.6	10		
-0.9	6		
-1.2	7		
-1.5	10		
-1.8	12		
-2.1	11		
-2.4	12		
-2.7	6		
-3.0	2		
-3.3	3		
-3.6	2		
-3.9	3		
-4.2	26	-4.2	1
-4.5	100	-4.5	1
-4.8			
-5.1			
-5.4			
-5.7			
-6.0			
-6.3			
-6.6			
-6.9			
-7.2			
-7.5			
-7.8			
-8.1			
-8.4			
-8.7			
-9.0			
-9.3			
-9.6			
-9.9			
-10.2			
-10.5			



The Blue line represents the 600mm re-drive to check rod friction

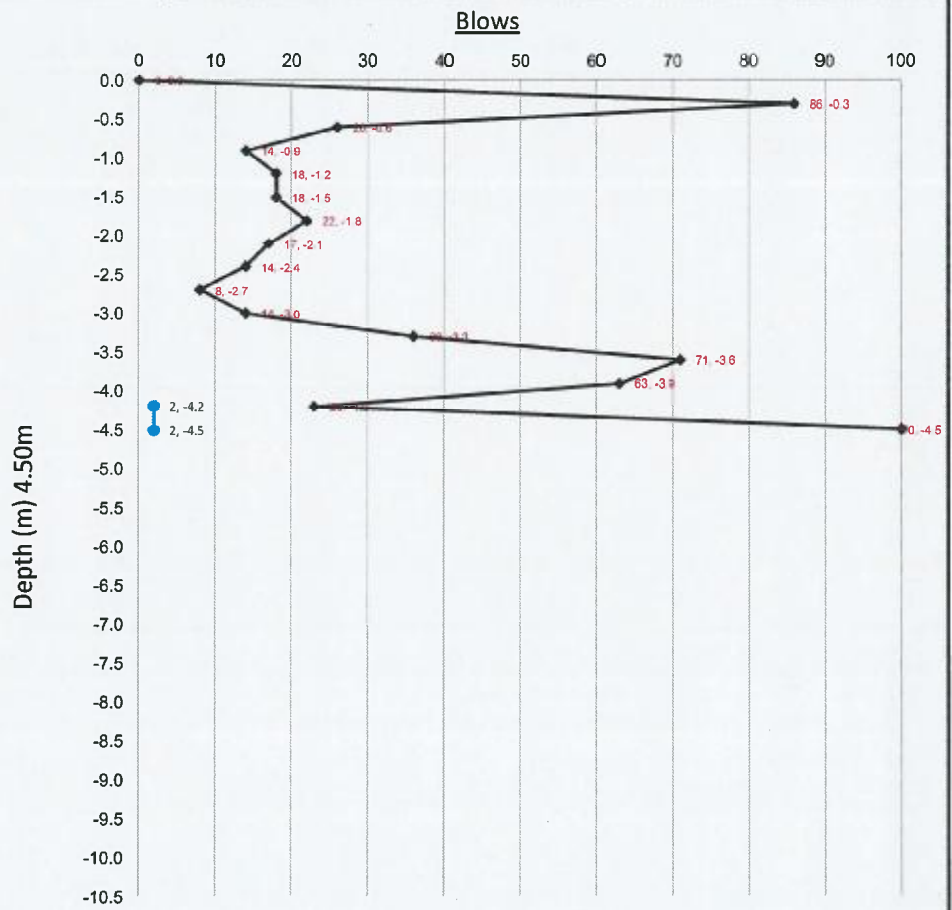
DYNAMIC PROBE SUPER HEAVY (DPSH) TEST RESULT



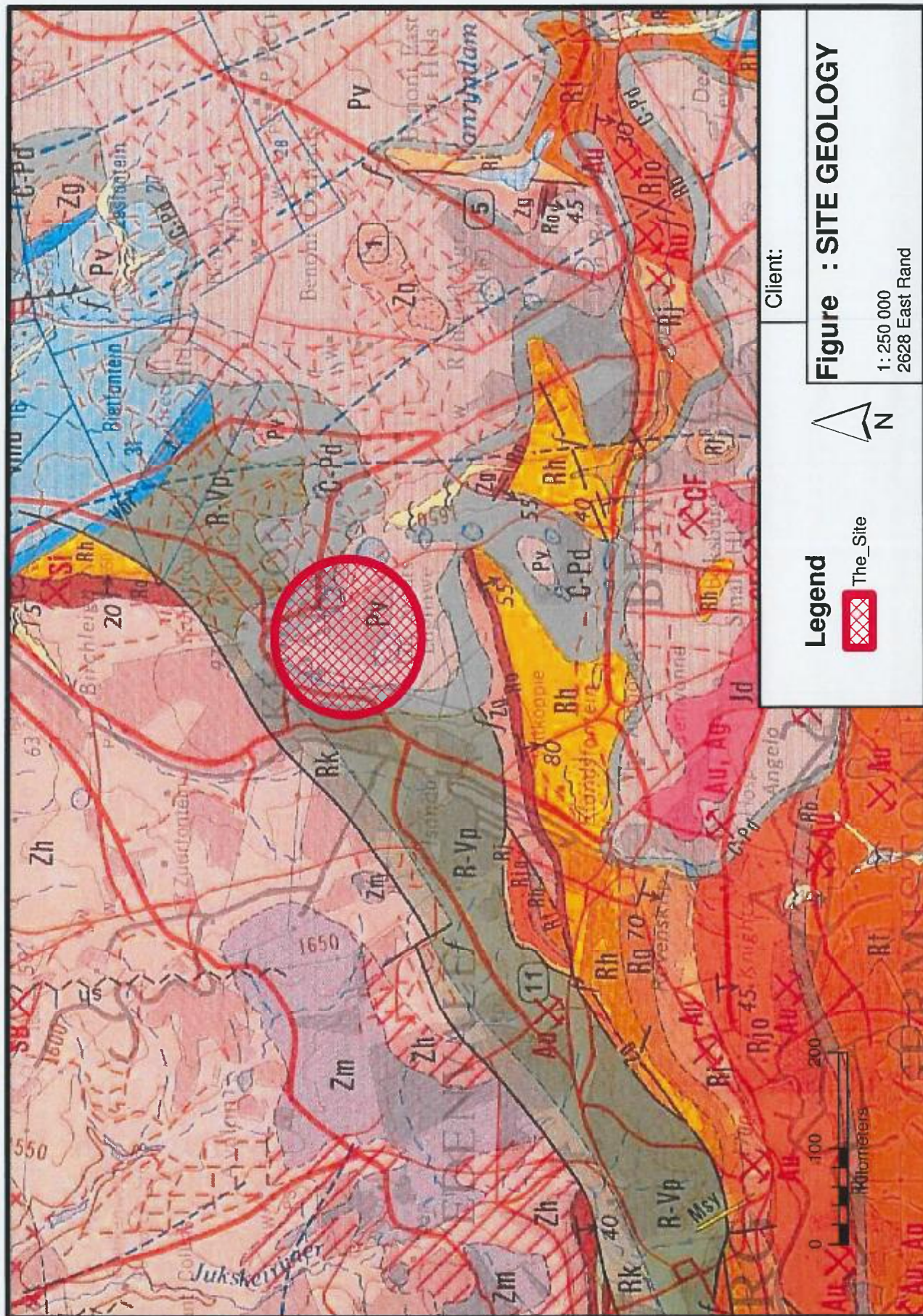
GEOMECHANICS (PTY) LTD

Client: Deveng Africa	Date: Friday, 23 June 2017
Project: Kempton Park	Test position: Platform 4
Cont. No: GM/C/1427	Operator: Brian Maseme
	Refusal Depth: 4,5m

Depth (m)	Number of Blows	Redrive Depth (m)	Redrive Number of Blows
0.0	0		
-0.3	86		
-0.6	26		
-0.9	14		
-1.2	18		
-1.5	18		
-1.8	22		
-2.1	17		
-2.4	14		
-2.7	8		
-3.0	14		
-3.3	36		
-3.6	71		
-3.9	63		
-4.2	23	-4.2	2
-4.5	100	-4.5	2
-4.8			
-5.1			
-5.4			
-5.7			
-6.0			
-6.3			
-6.6			
-6.9			
-7.2			
-7.5			
-7.8			
-8.1			
-8.4			
-8.7			
-9.0			
-9.3			
-9.6			
-9.9			
-10.2			
-10.5			



APPENDIX B: SITE GEOLOGICAL MAP



Client:

Figure : SITE GEOLOGY

1: 250 000
2628 East Rand

Legend

 The_Site

APPENDIX C: GEOTECHNICAL SITE PLAN SHOWING DPSH TEST POSITIONS

PART C5: HEALTH AND SAFETY SPESIFICATION

**OCCUPATIONAL HEALTH AND
SAFETY SPECIFICATION**

Compiled for

GAUTENG ENTERPRISE PROPELLER

For

**CONSTRUCTION OF JEWELLERY MANUFACTURING PRECINCT (JMP)
SUPERBLOCK BUILDING: (BUILDING 4)**

1. PREAMBLE

In terms of Construction Regulation 4(1)(a) of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), the Gauteng Enterprise Propeller, 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. In terms of Section 7 of the Act read with the Construction Regulation 5, the Principal Contractor shall be responsible for the Health & Safety Policy for the site 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, cognisance should be taken of the fact that no single Act or its set of Regulations can be read in isolation. Furthermore, although the definition of Health and Safety Specifications stipulates 'a documented specification of all health and safety requirements pertaining to associated works on a construction site, so as to ensure the health and safety of persons', it is required that the entire scope of the Labour legislation, including the Basic Conditions of Employment Act be considered as part of the legal compliance system. With reference to this specification document this requirement is limited to all health, safety and environmental issues pertaining to the site of the project as referred to here-in. Despite the foregoing it is reiterated that environmental management shall receive due attention.

Due to the wide scope and definition of construction work, every construction activity and site will be different, and circumstances and conditions may change even on a daily basis. Therefore, due caution is to be taken by the Principal Contractor when drafting the Health and Safety Plan based on these Health and Safety Specifications. Prior to drafting the Health and Safety Plan, and in consideration of the information contained here-in, the contractor shall set up a Risk Assessment Program to identify and determine the scope and details of any risk associated with any hazard at the construction site, in order to identify the steps needed to be taken to remove, reduce or control such hazard. *This Risk Assessment and the steps identified will be the basis or point of departure for the Health and Safety Plan.* The Health and Safety Plan shall include documented 'Methods of Statement' (see definitions under Construction Regulations) detailing

the key activities to be performed in order to reduce as far as practicable, the hazards identified in the Risk Assessment.

In this a high premium is to be placed on the health and safety of the most valuable assets of the Gauteng Enterprise Propeller. These are its personnel, the personnel of its Clients and the physical assets of which it is the custodian and may also include the public as well. The responsibilities the Department and relevant stakeholders have toward its employees and other people present in the facilities or on the sites are captured further in this specification document. These responsibilities stem from both moral, civil and a variety of legal obligations. The Principal Contractor is to take due cognisance of the above statement.

Every effort has been made to ensure that this specification document is accurate and adequate in all respects. Should it however, contain any errors or omissions they may not be considered as grounds for claims under the contract for additional reimbursement or extension of time, or relieve the Principal Contractor from his responsibilities and accountability in respect of the project to which this specification document pertains. Any such inaccuracies, inconsistencies and/or inadequacies must immediately be brought to the attention of the Agent and/or Client.

2. SCOPE OF HEALTH AND SAFETY SPECIFICATION DOCUMENT

The Health and Safety Specifications pertaining to all the projects, cover the subjects contained in the index and is intended to outline the normal as well as any special requirements of the Client 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 Client 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. *(All references to the singular shall also be regarded as references to the plural)*

The purpose of this specification document is to provide the relevant Principal Contractor (and his /her contractor) with any information other than the standard conditions pertaining to construction sites which might affect the health and safety of persons at work and the health and safety of persons in connection with the use of plant and machinery; and to protect persons other than persons at work against hazards to health and safety arising out of or in connection with the activities of persons at work during the carrying out of construction work for the Gauteng Enterprise Propeller. The Principal Contractor (and his /her contractor) is to be briefed on the significant health and safety aspects of the project and to be provided with information and requirements on *inter alia*:

- a) Safety considerations affecting the site of the project and its environment;
- b) Health and safety aspects of the associated structures and equipment;
- c) Submissions on health and safety matters required from the Principal Contractor (and his /her contractor); and
- d) The Principal Contractor's (and his /her contractor) health & safety plan.

To serve to ensure that the Principal Contractor (and his /her contractor) is fully aware of what is expected from him/her with regard to the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) and the Regulations made there-under including the applicable safety standards, and in particular in terms of Section 8 of the Act.

To inform the Principal Contractor that the Occupational Health and Safety Act, 1993 (Act 85 of 1993) in its entirety shall apply to the contract to which this specification document applies. The Construction Regulations promulgated on 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.

4. DEFINITIONS

“Purpose of the Act” - To provide for the health and safety of persons at work and the health and safety of persons in connection with the use of plant and machinery; the protection of persons other than persons at work against hazards to health and safety arising out of or in connection with the activities of persons at work; to establish an advisory council for occupational health

and safety; and to provide for matters connected therewith.

“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 contemplated 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

5.1.1.1 The Client and/or its Agent on its behalf to ensure that the Principal Contractor, appointed in terms of Construction Regulation 4(1)(c), implements and maintains the agreed and approved H&S Plan. Failure on the part of the Client or Agent to comply with this requirement will not relieve the Principal Contractor from any one or more of his/her duties under the Act and Regulations.

5.1.1.2 The Chief Executive Officer of the Principal Contractor in terms of Section 16 (1) of the Act to ensure that the Employer (as defined in the Act) complies with the Act. The pro forma Legal Compliance Audit may be used for this purpose by the Principal Contractor or his/her appointed contractor.

5.1.1.3 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).

5.1.1.4 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).

5.1.1.5 All Health and Safety Representatives (SHE-Reps) shall act and report as per Section 18 of the Act.

5.1.2. FURTHER (SPECIFIC) SUPERVISION RESPONSIBILITIES FOR OH&S

5.1.2.1 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 required to ensure compliance to the Act, Regulations and Safety Standards.

5.1.3 Required appointments as per the Construction Regulations:-

Item	Regulation	Appointment	Responsible 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)	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

- 5.1.4 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 paragraph 3 & 4 of the Chapter "Introduction" (page 4) above. This list must not be assumed to be exclusive or comprehensive.

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 shall 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

- 6.1 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 favour of the position agreed upon between the relevant parties.
- 6.2 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.
- 6.3 (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 each 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:
 - 7.1.4.1 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;
 - 7.1.4.2 have failed to implement or maintain their health and safety plan;
 - 7.1.4.3 have executed construction work which is not in accordance with their health and safety plan; or
 - 7.1.4.4 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 Labour 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.
- 7.2.2 The Principal Contractor shall ensure that he is fully conversant with the requirements of this Specification and 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 to comply with. 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.
- 7.2.10 The Principal Contractor shall from time to time evaluate the relevance of the Health and Safety Plan and revise the same as required, following which revised plan shall be submitted to the Client and/or his/her Agent for approval.

8. SCOPE OF WORK

8.1 These specifications are applicable to the scope of works of both civil engineering and architectural building projects as detailed in their specific tender documents, this amongst all includes for example:

8.1.1 Site clearance & establishment

8.1.2 Site hoarding, demarcation and demolition

8.1.3 Bulk Earthworks

8.1.4 Piling

8.1.5 Columns

8.1.6 Roads

8.1.7 Bulk services (water, sewer, stormwater & electricity)

8.1.8 Preparation of site by leveling, compaction and e.t.c

8.1.9 Excavations for other servicesEtc.”

N.B 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 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. The cost shall be duly quantified and clearly identified for such identifiable purpose.

9. HEALTH AND SAFETY FILE

9.1 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.

- 9.2 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

- 10.1 The Principal Contractor is required to maintain an acceptable disabling incident frequency rate (DIFR) and report on this to the Client and/or its Agent on its behalf on a monthly basis.

11. IDENTIFICATION OF HAZARDS AND DEVELOPMENT OF RISK ASSESSMENTS, STANDARD WORKING PROCEDURES (SWP) AND METHOD STATEMENTS

- 11.1 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 Specification Requirements")
- 11.2 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.

12.2.1 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.

12.2.2 A representative of the Principal Contractor and the relevant Health and Safety Representative(s) i.e. (Safety Officer / or 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 and Safety Officer/ SHE Rep's daily safety inspection reports reflecting possible recommendations made to the Employer for reference purposes.

12.3 INCIDENTS REPORTS

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

12.3.1 Dies

12.3.2 becomes unconscious

12.3.3 loses a limb or part of a limb

12.3.4 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

12.4 OR where:

12.4.1 a major incident occurred;

12.4.2 the health or safety of any person was endangered;

12.4.3 where a dangerous substance was spilled;

12.4.4 the uncontrolled release of any substance under pressure took place;

- 12.4.5 machinery or any part of machinery fractured or failed resulting in flying, falling or uncontrolled moving objects;
- 12.4.6 machinery ran out of control,

- 12.5 The Report of the above incidents must be made to the Provincial Director of the Department of Labour within seven days and at the same time to the Client and/or its Agent on its behalf.
- 12.6 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.
- 12.7 The Principal Contractor is required to provide the Client and/or its Agent on its behalf with a monthly "SHE Risk Management Report".
- 12.8 The Principal Contractor is required to provide as soon as possible the Client and/or its Agent on its behalf with copies of all internal and external accident/incident investigation reports including the reports as per clause 12 above. 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:

12.8.1 **EOHSE cc: 011 085 2001 - OHS Consultants for the Gauteng Enterprise Propeller**

12.8.2 **Department of Labour: 011 853 0300**

12.8.3 **The client (Gauteng Enterprise Propeller): 011 085 2001**

13 REVIEW

- 13.1 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.
- 13.2 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.

14. SITE RULES AND OTHER RESTRICTIONS

14.1 Site OH&S Rules

14.1.1 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.

14.1.2 When required for a site by law, visitors and non-employees upon entering the site shall be issued with the proper Personal Protective Equipment (PPE) as and when necessary.

14.2 Security Arrangements

14.2.1 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.

14.2.2 The Principal Contractor must develop a set of Security rules and procedures and maintain these throughout the construction period.

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

14.3 Training

14.3.1 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.

14.4 General Induction Training

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

14.5 Site Specific Induction Training

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

14.6 Other Training

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

14.6.2 All legal appointees in terms of the Act and Regulations must be in possession of valid proof of training as follows:

14.6.3 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):

- 14.6.3.1 General Induction (Section 8 of the Act)
- 14.6.3.2 Site/Job Specific Induction (also visitors) (Sections 8 & 9 of the Act)
- 14.6.3.3 Site/Project Manager
- 14.6.3.4 Construction Supervisor
- 14.6.3.5 OH&S Representatives (Section 18 (3) of the Act)
- 14.6.3.6 Training of the Appointees indicated in 12.6.1 & 12.6.2 above
- 14.6.3.7 Operation of Cranes (Driven Machinery Regulations 18 (11))
- 14.6.3.8 Operators & Drivers of Construction Vehicles & Mobile Plant (Construction Regulation 21)
- 14.6.3.9 Basic Fire Prevention & Protection (Environmental Regulations 9 and Construction Regulation 27)
- 14.6.3.10 As a minimum basic First Aid to be upgraded when necessary (General Safety Regulations 3)

- 14.6.3.11 Storekeeping Methods & Safe Stacking (Construction Regulation 26)
- 14.6.3.12 Emergency, Security and Fire Co-coordinator

14.7 Accident and Incident Investigation

- 14.7.1 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).
- 14.7.2 The results of the investigation to be entered into the Accident/Incident Register listed above. (General Administrative Regulation 9).
- 14.7.3 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.
- 14.7.4 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.
- 14.7.5 Notwithstanding the requirements of Section 24 of the Act, ALL incidents shall be investigated and reported on in writing, irrespective of whether such incident gave rise to injury or damage.

14.8 H&S Representatives (SHE-Reps – ‘safety, health & environment’) and H&S Committees: *Designation of H&S Representatives (‘SHE – Reps’)*

- 14.8.1 Where the Principal Contractor employs more than 20 persons (including the employees of other Contractors (sub-contractors) he has to appoint one H&S Representative for every 50 employees or part thereof. (Section 17 of the Act and General Administrative Regulation 6. & 7).

14.8.2 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.

14.9 Duties and Functions of the H&S Representatives

14.9.1 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.

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

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

14.10 Establishment of H&S Committee(s)

14.10.1 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.

14.10.2 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.

14.10.3 Agenda:

14.10.3.1 Opening and determining of chairmanship (only when necessary)

14.10.3.2 Minutes of Previous Minutes;

14.10.3.3 Observations;

14.10.3.4 Program and Safety considerations;

- 14.10.3.5 Hygiene;
- 14.10.3.6 Housekeeping improvement;
- 14.10.3.7 Incidents & Accidents / Injuries
 - 14.10.3.7.1 Registers:
 - 14.10.3.7.1.1 H&S Rep. Inspections;
 - 14.10.3.7.1.2 Matters of First Aid;
 - 14.10.3.7.1.3 Scaffolding;
 - 14.10.3.7.1.4 Ladders;
 - 14.10.3.7.1.5 Excavations;
 - 14.10.3.7.1.6 Mobile plant and machinery;
 - 14.10.3.7.1.7 Portable Electric Equipment;
 - 14.10.3.7.1.8 Fire Equipment
 - 14.10.3.7.1.9 Explosive Power Tools;
 - 14.10.3.7.1.10 Power Hand tools;
 - 14.10.3.7.1.11 Incident! Report Investigation;
 - 14.10.3.7.1.12 Pressure Vessels;
 - 14.10.3.7.1.13 Personal Protective Equipment.
- 14.10.3.8 Safety performance Evaluations
- 14.10.3.9 Education & Safety promotion program;
- 14.10.3.10 First Aid Officials and training in First Aid;
- 14.10.3.11 Demarcation of work- /hazardous-/safe areas/walkways;
- 14.10.3.12 Posters and signage;
- 14.10.3.13 Environmental preservation and conservation;
- 14.10.3.14 Specific training programmes;
- 14.10.3.15 General
- 14.10.3.16 Date of Next Meeting
- 14.10.3.17 Closing

15 PROJECT/SITE SPECIFIC REQUIREMENTS

- 15.1 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:
- 15.2 Clearing & Grubbing of the Area/Site
- 15.3 Site Establishment including:
 - 15.3.1 Office/s

- 15.3.2 Secure/Safe Storage and storage areas for materials, plant & equipment
- 15.3.3 Ablution facilities
- 15.3.4 Sheltered dining area
- 15.3.5 Accommodation facilities
- 15.3.6 Vehicle access to the site
- 15.4 Dealing with existing Structures (.i.e. demolition)
- 15.5 Location of existing Services
- 15.6 Installation & Maintenance of Temporary Construction Electrical Supply, Lighting and Equipment
- 15.7 Adjacent Land uses/Surrounding property exposures
- 15.8 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.)
- 15.9 Health risks arising from neighbouring as well as own activities and from the environment e.g. threats by dogs, bees, snakes, lightning, allergies etc.
- 15.10 Exposure to Noise
- 15.11 Exposure to Vibration
- 15.12 Exposure to dust (*i.e. cement dust, etc*)
- 15.13 Protection against dehydration and heat exhaustion
- 15.14 Protection from wet & cold conditions
- 15.15 Dealing with HIV/Aids and other diseases as per specific programme provided by the client and/or its Agent on its behalf.

- 15.16 Use of Portable Electrical Equipment including:
 - 15.16.1 Angle grinder
 - 15.16.2 Electrical Drilling machine
 - 15.16.3 Skill saw

- 15.17 Excavations including:
 - 15.17.1 Ground/soil conditions
 - 15.17.2 Trenching
 - 15.17.3 Shoring
 - 15.17.4 Drainage
 - 15.17.5 Daily inspections

- 15.18 Welding including:
 - 15.18.1 Arc Welding
 - 15.18.2 Gas welding
 - 15.18.3 Flame Cutting
 - 15.18.4 Use of LP Gas torches and appliances

- 15.19 Loading & Offloading of Trucks;

15.20 Aggregate/Sand and other Materials Delivery;

15.21 Manual and Mechanical Handling of heavy materials;

15.22 Lifting and Lowering Operations;

15.23 Driving & Operation of Construction Vehicles and Mobile Plant including:

- 15.23.1 Trenching machine
- 15.23.2 Excavator
- 15.23.3 Bomag Roller
- 15.23.4 Saw cutter
- 15.23.5 Plate Compactor
- 15.23.6 Front End Loader
- 15.23.7 Tipper Trucks
- 15.23.8 Mobile Cranes and the ancillary lifting tackle
- 15.23.9 Parking of Vehicles & Mobile Plant
- 15.23.10 Towing of Vehicles & Mobile Plant

15.24 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;

15.25 Layering and Bedding of trench floor;

15.26 Installation of Pipes in trenches;

15.27 Backfilling of Trenches

15.28 Protection against Flooding

15.29 Gabion work

OHS Act Section/ Regulation	2.1.1.1 Subject	Requirements
Construction Regulation 3	Notice of carrying out Construction work	Department of Labour notified Copy of Notice available on Site
General Admin. Regulation 4	*Copy of OH&S Act (Act 85 of 1993)	Updated copy of Act & Regulations on site. Readily available for perusal by employees.
COID Act Section 80	*Registration with Compensation Insurer	Written proof of registration/Letter of good standing available on Site
Construction. Regulation 4 & 5(1)	H&S Specification & Programme	H&S Spec received from Client and/or its Agent on its behalf OH&S programme developed & Updated regularly
Section 8(2)(d) Construction Regulation 7	*Hazard Identification & Risk Assessment	Hazard Identification carried out/Recorded Risk Assessment and – Plan drawn up/Updated RA Plan available on Site Employees/Sub-Contractors informed/trained
Section 16(2)	*Assigned duties (Managers)	Responsibility of complying with the OH&S Act assigned to other person/s by CEO.
Construction Regulation 6(1)	Designation of Person Responsible on Site	Competent person appointed in writing as Construction Supervisor with job description
Construction Regulation 6(2)	Designation of Assistant for above	Competent person appointed in writing as Assistant Construction Supervisor with job description
Section 17 & 18 General Administrative Regulations 6 & 7	*Designation of Health & Safety Representatives	More than 20 employees - one H&S Representative, one additional H&S Rep. for each 50 employees or part thereof. Designation in writing, period and area of responsibility specified in terms of GAR 6 & 7 Meaningful H&S Rep. reports. Reports actioned by Management.
Section 19 & 20 General Administrative	*Health & Safety Committee/s	H&S Committee/s established. All H&S Reps shall be members of H&S Committees

Regulations 5		Additional members are appointed in writing. Meetings held monthly, Minutes kept. Actioned by Management.
Section 37(1) & (2)	*Mandatory Agreements with (Sub-Contractors)	Written agreement with (Sub-)Contractors List of (Sub-) Contractors displayed. 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 & General Admin. Regulation 8 COID Act Sect.38, 39 & 41	*Reporting of Incidents (Dept. of Labour)	Incident Reporting Procedure displayed. All incidents in terms of Sect. 24 reported to the Provincial Director, Department of Labour, within 3 days. (Annexure 1?)(WCL 1 or 2) and to the Client and/or its Agent on its behalf Cases of Occupational Disease Reported Copies of Reports available on Site Record of First Aid injuries kept
General Admin. Regulation 9	*Investigation and Recording of Incidents	All injuries which resulted in the person receiving medical treatment other than first aid, recorded and investigated by investigator designated in writing. Copies of Reports (Annexure 1) available on Site Tabled at H&S Committee meeting Action taken by Site Management.

15.30 Use of Explosives - the client and/or its Agent on its behalf to be informed of this prior to commencing of the project;

15.31 Protection from Overhead Power Lines;

15.32 As discovered by the Principal Contractor's hazard identification exercise;

15.33 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

15.34 As discovered from any accident/incident investigation.

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

16.1 Administrative & Legal Requirements

16.2 Education, Training & Promotion

16.3 Public Safety & Emergency Preparedness

- 16.4 Personal Protective Equipment
- 16.5 Housekeeping
- 16.6 Working at heights
- 16.7 Scaffolding, Formwork & Support work
- 16.8 Ladders
- 16.9 Electrical Safeguarding
- 16.10 Emergency/Fire Prevention & Protection
- 16.11 Excavations & Demolition
- 16.12 Tools
- 16.13 Cranes
- 16.14 Personnel & Material Hoists
- 16.15 Transport & Materials Handling
- 16.16 Site Plant & Machinery
- 16.17 Plant & Storage Yards/Site Workshops Specifics
- 16.18 Health & Hygiene

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

17.1 ADMINISTRATIVE & LEGAL REQUIREMENTS

OHS Act Section/ Regulation	Subject	Requirements
Construction Regulation 8	Fall Prevention & Protection	Competent person appointed to draw up and supervise the Fall 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. Regulation 8(5)	Roof work	Competent person appointed to plan & supervise Roof work. Proof of appointees competence available on Site Risk Assessment carried out Roof work Plan drawn up/updated Roof work inspect before each shift. Inspection register kept Employees medically examined for physical & psychological fitness. Written proof on site
Construction. Regulation 9	Structures	Information re. the structure being erected received from the Designer including:

		- geo-science technical report where relevant - 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
Construction. Regulation 10	Formwork & Support work	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. - Inspection register kept
Construction. Regulation 14	Scaffolding	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 15	Suspended Platforms	Competent persons appointed in writing to: - control the erection of Suspended platforms - act as Suspended platforms Team Leaders - inspect Suspended Scaffolding weekly and after inclement weather Risk Assessment conducted Certificate of Authorisation issued by a registered professional engineer available on Site/copy forwarded to the Department of Labour The following inspections of the whole installation carried out by a competent person - after erection and before use - daily prior to use. Inspection register kept

		The following tests to be conducted by a competent person: - load test of whole installation and working parts every three months - hoisting ropes/hooks/load attaching devices quarterly. Tests log book kept Employees working on Suspended Platform medically examined for physical & psychological fitness. Written proof available
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OHS Act Section/ Regulation	Subject	Requirements
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. Regulation 12	Demolition Work	Competent person/s appointed in writing to supervise and control Demolition work Written Proof of Competence of above appointee/s available on Site Risk Assessment carried out Engineering survey and Method Statement available on Site Inspections to prevent premature collapse carried out by competent person before each shift. Inspection register kept
Construction. Regulation 17	Materials Hoist	Competent person appointed in writing to inspect the Material Hoist Written Proof of Competence of above appointee available on Site. Materials Hoist to be inspected weekly by a competent person. Inspections register kept.
Construction. 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 18	Batch Plants	Competent person appointed to control the operation of the Batch Plant and the service, maintenance and cleaning. Register kept of above Risk Assessment carried out Batch Plant to be inspected weekly by a competent person. Inspections register kept
Construction. Regulation 20/ Driven Machinery Regulations 18 & 19	Cranes & Lifting Machines Equipment	Competent person appointed in writing to inspect Cranes, Lifting Machines & Equipment Written Proof of Competence of above appointee available on Site. Cranes & Lifting tackle identified/numbered Register kept for Lifting Tackle Log Book kept for each individual Crane Inspection: - All cranes - daily by operator - Tower Crane/s - after erection/6monthly - Other cranes - annually by comp. person - Lifting tackle(slings/ropes/chain slings etc.) - daily or before every new application
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/Store man. Register kept.
Construction Regulation 26/	*Designation of Stacking &	Competent Person/s with specific knowledge and experience designated to supervise all

General Safety Regulation 8(1)(a)	Storage Supervisor.	Stacking & Storage Written Proof of Competence of above appointee available on Site
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OHS Act Section /Regulation	Subject	Requirements
Construction. Regulation 27/ Environmental Regulation 9	*Designation of a Person to Co-ordinate Emergency Planning And Fire Protection	Person/s with specific knowledge and experience designated to co-ordinate emergency contingency planning and execution and fire prevention measures Emergency Evacuation Plan developed: - Drilled/Practiced - Plan & Records of Drills/Practices available on Site Fire Risk Assessment carried out All Fire Extinguishing Equipment identified and on register . Inspected weekly. Inspection Register kept Serviced annually
General Safety Regulation 3	*First Aid	Every workplace provided with sufficient number of First Aid boxes. (Required where 5 persons or more are employed) 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 Regulation 2	Personal Safety Equipment (PSE)	PSE Risk Assessment carried out Items of PSE prescribed/use enforced Records of Issue kept Undertaking by Employee to use/wear PSE PSE remain property of Employer, not to be removed from premises GSR 2(4)
General Safety Regulation 9	*Inspection & Use of Welding/Flame Cutting Equipment	Competent Person/s with specific knowledge and experience designated to Inspect Electric Arc, Gas Welding and Flame Cutting Equipment 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 Substances (HCS) Regulations Construction Regulation 23	*Control of Storage & Usage of HCS and Flammables	Competent Person/s with specific knowledge and experience designated to Control the Storage & Usage of HCS (including Flammables) Written Proof of Competence of above appointee available on Site Risk Assessment carried out Register of HCS kept/used on Site Separate, purpose made storage available for full and empty containers
Vessels under Pressure Regulations	Vessels under Pressure (VUP)	Competent Person/s with specific knowledge and experience 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

OHS Act Section /Regulation	Subject	Requirements
Construction Regulation 21	Construction Vehicles & Earth Moving Equipment	Operators/Drivers appointed to: - Carry out a daily inspection prior to use - Drive the vehicle/plant that he/she is competent to operate/drive Written Proof of Competence of above appointee available on Site. Record of Daily inspections kept
General Safety Regulation 13A	*Inspection of Ladders	Competent person appointed in writing to inspect Ladders Ladders inspected at arrival on site and weekly thereafter. Inspections register kept

		Application of the types of ladders (wooden, aluminium etc.) regulated by training and inspections and noted in register
General Safety regulation 13B	Ramps	Competent person appointed in writing to Supervise the erection & inspection of Ramps. Inspection register kept. Daily inspected and noted in register

17.1 EDUCATION & TRAINING

Subject	Requirement
*Company OH&S Policy Section 7(1)	Policy signed by CEO and published/Circulated to Employees Policy displayed on Employee Notice Boards Management and employees committed.
*Company/Site OH&S Rules (Section 13(a))	Rules published Rules displayed on Employee Notice Boards Rules issued and employees effectively informed or trained: written proof Follow-up to ensure employees understand/adhere to the policy and rules.
*Induction & Task Safety Training (Section 13(a))	All new employees receive OH&S Induction Training. Training includes Task Safety Instructions. Employees acknowledge receipt of training. Follow-up to ensure employees understand/adhere to instructions.
*General OH&S Training (Section 13(a))	All current employees receive specified OH&S training: written proof Operators of Plant & Equipment receive specified training Follow-up to ensure employees understand/adhere to instructions.
*Occupational Health & Safety Promotion	<u>Incident Experience Board indicating e.g.</u> * No. of hours worked without an Injury * 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.

17.2 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 Safeguarding	Nets, Canopies, Platforms, Fans etc. to protect members of the public passing / entering the site.
*Security Measures	Access control measures/register in operation Security patrols after hours during weekends and holidays Sufficient lighting after dark Guard has access to telephone/ mobile/other means of emergency communication
*Emergency Preparedness	Emergency contact numbers displayed and made available to Security & Guard 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 Drill & Evacuation	Emergency alarm audible all over (including in toilets) Adequate No. of employees trained to use Fire Fighting Equipment. Emergency Evacuation Plan available displayed and practiced. (See Section 1 for Designation & Register)

17.3 PERSONAL PROTECTIVE 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 prescribed)
*Foot Protection	All employees on site wearing Safety Footwear including Gumboots for concrete / wet work and non-slip shoes for roof work. Visitors to wear same upon request or where prescribed

*Eye and Face Protection	<u>Eye and Face (also Hand and Body) Protection</u> (Goggles, Face Shields, Welding Helmets etc.) used when operating the following: * 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.
*Hearing Protection	<u>Hearing Protectors</u> (Muffs, Plugs etc.) used when operating the following: * Jack / Kango Hammers * Explosive Powered Tools * Wood/Aluminium Working Machines e.g. saws, planers, routers
*Hand Protection	<u>Protective Gloves</u> worn by employees handling / using: * Cement / Bricks / Steel / Chemicals * Welding Equipment * Hammers & Chisels * Jack / Kango Hammers etc.
*Respiratory Protection	Suitable/efficient prescribed <u>Respirators</u> worn correctly by employees handling / using: * Dry cement * Dusty areas * Hazardous chemicals * Angle Grinders * Spray Painting etc.
*Fall Equipment Prevention	Suitable <u>Safety Belts</u> / Fall Arrest Equipment correctly used by persons working on / in 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)

17.4 HOUSEKEEPING

Subject	Requirement
*Scrap Removal System	All items of Scrap/Unusable Off-cuts/Rubble and redundant material 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 (See Section 1 for Designation & Register)	<u>Stacking:</u> * Stable, on firm level surface/base. * Prevent leaning/collapsing * Irregular shapes bonded * Not exceeding 3x the base * Stacks accessible * Removal from top only. <u>Storage:</u> * Adequate storage areas provided. * Functional – e.g. demarcated storage areas/racks/bins etc. * Special areas identified and demarcated e.g. flammable gas, cement etc. * Neat, safe, stable and square. * Store/storage areas clear of superfluous material. * Storage behind sheds etc. neat/under control. * Storage areas free from weeds, litter etc.
*Waste Control/ Reclamation	Re-usable off-cuts and other re-usable material removed daily and kept to a minimum in the work areas.

	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 (Housekeeping)	Sub-contractors are required to comply with Housekeeping requirements.

17.5 WORKING AT HEIGHTS (INCLUDING ROOF WORK)

Subject	Requirement
Openings	Unprotected openings adequately guarded/fenced/barricaded/catch nets installed
Roofing	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

17.6 SCAFFOLDING / FORMWORK / SUPPORT WORK

Subject	Requirement
Access/System Scaffolding	Foundation firm / stable Sufficient bracing. 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 Scaffolding	Foundation firm / stable Sufficient bracing. 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	Foundation firm / stable Sufficient bracing.

	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
*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
Suspended Scaffolding	Outriggers securely supported and anchored. Correct No. of steel wire ropes used. Platform as close as possible to the structure. Handrails on all sides All winches / ropes / cables / brakes inspected regularly and replaced as prescribed Scaffolding complies with OHS Act (Act 85/93) Winch(es) maintained by competent person(s)
Formwork / Support Work	All components in good condition. 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.
Special Scaffolding	Special Scaffolding e.g. Cantilever, Jib and Truss-out scaffolds erected to an acceptable standard and inspected by specialists.
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.

17.7 LADDERS

Subject	Requirement
*Physical Condition / Use & Storage	Stepladders - hinges/stays/braces/stiles in order. 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
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17.8 ELECTRICAL INSTALLATIONS AND SAFEGUARDING

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
*Electrical 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 <u>b'R'own</u> wire connects to the '<u>R</u>ight hand connector. "Blue" has the letter 'L' in it, so the <u>b'L'ue</u> wire connects to the '<u>L</u>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 Electrical Appliances & Tools	<u>Electrical Equipment and Tools:</u> (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.

17.9 EMERGENCY, FIRE PREVENTION AND PROTECTION

Subject	Requirement
*Fire Extinguishing Equipment	Fire Risks Identified and on record <u>The correct and adequate Fire Extinguishing Equipment available for:</u> * 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	<u>Fire Extinguishing Equipment:</u> * Clearly visible * Unobstructed * Signs posted including “No Smoking” / “No Naked Lights” where required. (Flammable store, Gas store, Fuel tanks etc.)

Subject	Requirement
* Storage Issue & Control of Flammables (incl. Gas cylinders)	Storage Area provided for flammables with suitable doors, ventilation, bund etc. Flammable store neat / tidy and no Class A combustibles. Decanting of flammable substances carried out in ignition free and adequately ventilated area. Container bonding principles applied Only sufficient quantities issued for one task or one day's usage 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. Leaking acetylene vessels to be returned to the supplier IMMEDIATELY.
*Storage, Issue & Control of Hazardous Chemical Substances (HCS)	HCS storage principles applied: products segregated Only approved, non-expired HCS to be used Only the prescribed PPE shall be used as the minimum protection 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
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17.10 EXCAVATIONS

Subject	Requirement
Excavations deeper than 1.5 m.	Shored / Braced to prevent caving / falling in. 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

17.11 TOOLS

Subject	Requirement
*Hand Tools	<u>Shovels / Spades / Picks:</u> * Handles free from cracks and splinters * Handles fit securely * Working end sharp and true <u>Hammers:</u> * 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 <u>Saws:</u> * Teeth sharp and set correctly * Correct saw used for the job
*Explosive Powered Tools.	Only used by trained / authorised personnel. 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.
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17.12 CRANES

Subject	Requirement
Tower Crane	Only operated by trained authorised operator with valid certificate of training Structure - no visible defects Electrical installation good/safe Crane hook: Throat pop marked/safety latch fitted/functional SWL/MML displayed Limit switches with backup switches fitted/operational Access Ladder fitted with backrests/Fall arrest system installed Lifting tackle in good condition/inspection colour coding Lifting tackle checked daily
*Mobile Crane	Only operated by trained authorised operator with valid certificate of training Rear view mirrors Windscreen visibility good Windscreen wipers operating effectively Indicators operational Hooter working Tyres safe/sufficient tread/pressure visibly sufficient No missing Wheel nuts Headlights, taillights operational Reverse alarm working and audible and known by all employees Grease nipples and grease on all joints No Oil leaks Hydraulic pipes visibly sound/no leaks No corrosion on Battery terminals Boom visibly in good condition/no apparent damage Cable/sheaves greased/no visible damage/split wires/corrosion and checked daily Brakes working properly Crane hook: Throat pop marked/safety latch fitted/functional SWL/MML displayed By-pass valves operational Deflection chart displayed/visible to operator/driver Outriggers functional used
*Gantry Crane	Only operated by trained authorised persons Correct slinging techniques used Recognised/displayed on chart signals used Log book kept/up to date

	Prescribed inspections conducted on crane & lifting tackle and checked daily “Crane overhead” signage, where applicable Crane hook: Throat pop marked/safety latch fitted/functional SWL/MML displayed/load limiting switches fitted/operational
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14.14 BUILDER’S HOIST

Subject	Requirement
Builder’s Hoist	“Hoist In Operation” - sign displayed. General construction strong and free from patent defects. <u>Tower:</u> * Adequately secured / braced. * At least 900 mm available for over travel. * Barricaded at least 2 100 mm high at ground level and floors. * Landing place provided with gate at least 1 800 high. <u>Platform:</u> * No persons conveyed on platform * Steel wire ropes with breaking strength of six times max. load. * Signal systems used which may include two way radio connection. * Goods prevented from moving / falling off. * Effective brake capable of stopping and holding max. load.

14.15 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 driving / operating 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.

14.16 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
*Woodworking Machines	Operators Trained. Only authorised persons use machines. Provided with guards. Guards used. Operators using correct PPE - eye/face/feet/hearing Circular saws strictly operated according to prescribed methods and settings Only prescribed saw blades (cross-cut, ripping blade, smooth cut, aluminium) shall be used for various applications
*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 / Batch Plant	Top platform provided with guardrails. 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 Cutting Equipment	Only authorised/trained persons use the 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
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14.17 PLANT & STORAGE YARDS/SITE WORKSHOPS SPECIFICS

Subject	Requirements
Section 8(2)(1) General Machinery Regulation 2(1): Supervision of the Use & Maintenance of Machinery	Person/s with specific knowledge and experience designated in writing to Supervise the Use & Maintenance of Machinery Critical items of Machinery identified/numbered/placed on register/inventory Inspection/maintenance schedules for abovementioned Inspections/maintenance carried out to above schedules Results recorded
General Machinery Regulation 9(2): Notices re. Operation of Machinery	Schedule D Notice posted in Work areas
Vessels under Pressure Regulation 13(1)(b): Supervision of the Use & Maintenance of Vessels under Pressure (VuP)	Person/s with specific knowledge and experience designated in writing to Supervise the Use & Maintenance of VuP's VuP's identified/numbered/placed on register/Manufacturers plate intact Inspection/maintenance schedules for abovementioned 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 Tool rest – 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/Shears	Only operated by trained/authorised persons Interlocks/lock-outs fitted/PPE worn or used at all times

14.18 WORKPLACE ENVIRONMENT, HEALTH AND HYGIENE

Subject	Requirement
*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 Facilities	Adequate storage facilities provided. 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. 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 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

18 THE PRINCIPAL CONTRACTOR'S GENERAL DUTIES

- 18.1 The Principal Contractor shall at all times ensure his status of an “employer” as referred to in the Act, and will abide by his/her responsibilities, duties and functions as per the requirements of the Act and Regulations with specific reference to Section 8 of the Act.
- 18.2 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.

19 THE PRINCIPAL CONTRACTOR'S SPECIFIC DUTIES

- 19.1 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.
- 19.2 The Principal Contractor is specifically referred to the following elements of the Construction Regulations:
- | | |
|---------------------------|--|
| 19.2.1 Regulation No. 1 | - Definitions |
| 19.2.2 Regulation No. 2 | - Scope of application |
| 19.2.3 Regulation No. 3 | - Notification of construction work |
| 19.2.4 Regulation No. 5 | - Principal Contractor and Contractor |
| 19.2.5 Regulation No. 6 | - Supervision of construction work |
| 19.2.6 Regulation No. 7 | - Risk Assessment |
| 19.2.7 Regulation No. 26 | - Stacking & Storage on construction sites |
| 19.2.8 Regulation No. 28 | - Construction welfare facilities |
| 19.2.9 Regulation No. 29 | - Approved Inspection authorities |
| 19.2.10 Regulation No. 30 | - Offences and penalties |
- 19.3 This list must not be taken to be exclusive or exhaustive!

- 19.4 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.

20 THE PRINCIPAL CONTRACTOR'S SPECIFIC RESPONSIBILITIES WITH REGARD TO HAZARDOUS ACTIVITIES

- 20.1 The following activities are identifiable as hazardous in terms of the Construction Regulations.

- 20.2 The contractor shall execute the activities in accordance with the following Construction Regulations and other applicable regulations of the Act:

- | | | |
|---------|-------------------|--|
| 20.2.1 | Regulation No. 8 | - fall protection |
| 20.2.2 | Regulation No. 9 | - Structures |
| 20.2.3 | Regulation No. 10 | - Formwork and support work |
| 20.2.4 | Regulation No. 11 | - Excavation work |
| 20.2.5 | Regulation No. 12 | - Demolition work |
| 20.2.6 | Regulation No. 13 | - Tunneling |
| 20.2.7 | Regulation No. 14 | - Scaffolding |
| 20.2.8 | Regulation No. 15 | - Suspended platforms |
| 20.2.9 | Regulation No. 16 | - Boatswain's chairs |
| 20.2.10 | Regulation No. 17 | - Material hoists |
| 20.2.11 | Regulation No. 18 | - Batch plants |
| 20.2.12 | Regulation No. 19 | - Explosive powered tools |
| 20.2.13 | Regulation No. 20 | - Cranes |
| 20.2.14 | Regulation No. 21 | - Construction vehicles & mobile plant. |
| 20.2.15 | Regulation No. 22 | - Electrical installations and machinery on construction sites |
| 20.2.16 | Regulation No. 23 | - Use and temporary storage of flammable liquids on construction sites |

- 20.2.17 Regulation No. 24 - Water environments
- 20.2.18 Regulation No. 25 - Housekeeping on construction sites
- 20.2.19 Regulation No. 27 - Fire precautions on construction sites.

20.3 This list must not be taken to be exclusive or exhaustive!

20.4 All of the above requirements will be read in conjunction with the relevant regulations and health and safety standards as required by the Act. All documents and records required by the Construction Regulations will be kept in the Health and Safety File and will be made available at any time when required by the client or his representative, or on request to an interested party.

21 GENERAL NOTES TO THE PRINCIPAL CONTRACTOR

21.1 LEGAL FRAMEWORK

The below listed Acts and Principles applies 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), including Publications of the SABS Standards and Codes of Practice, with specific reference to GNR 17468 dated 4th October 1997;
- (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.

22 LEGAL LIABILITIES

22.1 Common Law is mainly based on the following principles :

22.1.1 Would the reasonable person have foreseen the hazard?

22.1.2 **That is a reasonable person in that specific position, taking experience, qualifications, authority, position in the organization etc. into consideration**

22.1.3 Would the reasonable person have taken precautionary measures (action) to prevent or limit the hazard?

23 HOUSE KEEPING

23.1 Good housekeeping will be maintained at all times as per Construction Regulation No. 25.

23.2 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.

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

23.3.1 Phase priorities and production/plant layout

23.3.2 Enclosures

23.3.3 Pits, openings and shoring

23.3.4 Storage facilities

23.3.5 Effective, sufficient and maintained lighting or illumination

23.3.6 Principal sources of injuries e.g. stairways, runways, ramps, loose building material

23.3.7 Oil, grease, water, waste, rubble, glass, storm water

23.3.8 Color coding

23.3.9 Demarcations

23.3.10 Pollution

23.3.11 Waste disposal

23.3.12 Ablution and hygiene facilities

23.3.13 First aid

23.4 This list must not be taken to be exclusive or exhaustive!

23.5 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.

- 23.6 Dross and refuse from metals, and waste matters or by-products whose nature is such that they are poisonous or capable of fermentation, putrefaction or constituting a nuisance shall be treated or disposed of by methods approved of by an inspector.

NOTE: No employer (Principal Contractor) shall require or permit any person to work at night or after hours unless there is adequate, suitable artificial lighting including support services in respect of Health and Safety.

24 LOCKOUT SYSTEMS – ELECTRICAL

- 24.1 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.
- 24.2 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.

25 INCIDENT INVESTIGATION

- 25.1 Inspection and reporting is the best way in which a responsible contractor can control his area of responsibility. All incidents therefore, irrespective of 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)

26 GENERAL

- 26.1 The project under control of the Principal Contractor shall be subject to periodic health and safety audits that will be conducted by the client at intervals agreed upon between the Principal Contractor and the client, provided such intervals will not exceed periods of one month.
- 26.2 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).

26.3 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.

27 IMPORTANT LISTS AND RECORDS TO BE KEPT

27.1 The following are lists of several records that are to be kept in terms of the Construction Regulations. The lists are:

27.1.1 List of appointments

27.1.2 List of record keeping responsibilities

27.1.3 Inspection checklist

27.2 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.

28 LIST OF APPOINTMENTS

2.1.1.1	REGULATION	APPOINTMENT	RESPONSIBLE 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
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

29 LIST OF RECORD KEEPING RESPONSIBILITIES

2.1.1.1.2	ITEM	2.1.1.1.3	CR	2.1.1.1.4	RECORDS 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 into. OHS & Regulations	Every Contractor	

		Available on request	
5.	5(8)	Consolidated Health and Safety File handed to Client on completion of Construction work. To include all documentation required i.e. OHS&A & 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 Included in Health and Safety file and available on request	Principal Contractor
7.	6(7)	Keep record on the Health and Safety File of the input by Construction Safety Officer [CR 6 (7)] at design stage or on the Health and Safety Plan	Contractor
8.	7(2)	Risk Assessment - Available on site for inspection	Contractor
9.	7 (9)	Proof of Health and Safety Induction Training	Every Employee on site
10.	8(3)	Construction Supervisor [CR 6(1)] has latest updated version of Fall Protection Plan [CR 8(1)]	Contractor
11.	9(2)(b)	Inform contractor in writing of dangers and hazards relating to construction work	Designer of Structure
12.	9(3)	All drawings pertaining to the design of structure On site available for inspection	Contractor
13.	9(4)	Record of inspections of the structure [First 2 years – once every 6 months, thereafter yearly] - Available on request	Owner of Structure
14.	9(5)	Maintenance records - safety of structure - Available on request	Owner of Structure
15.	10(d)	Drawings pertaining to the design of formwork/support work structure - Kept on site, available on request	Contractor
16.	11(3)(h)	Record of excavation inspection - On site available on request	Contractor

17.	15(11)	Suspended Platform inspection and performance test records Kept on site available, on request	Contractor
18.	17(8)(c)	Material Hoist daily inspection entered and signed in record book kept on the premises	Contractor
19.	17(8)(d)	Maintenance records for Material Hoist - Available on site	Contractor
20.	18(9)	Records of Batch Plant maintenance and repairs On site available for inspection	Contractor
21.	19(2)(g)(ii)	Issuing and collection of cartridges and nails or studs (Explosive Powered Tools) recorded in register – recipient signed for receipt as well as return	Contractor
22.	21(1)(j)	Findings of daily inspections (prior to use) of Construction Vehicles and Mobile Plant	Contractor
23.	22(d)	Record of temporary electrical installation inspections [once a week] and electrical machinery [daily before use] in a register and kept on site	Contractor
24.	27(l)	Fire Evacuation Plan	Contractor

30 INSPECTION CHECKLIST**3**

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/RE GS	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			
CR 21(1)(d)(ii)	Medical Certificate of Fitness			
CR 21(1)(l)	Construction Vehicle & Mobile Plant Register			
CR 22(d)	Electrical Installation & Machinery Register			
INCIDENTS				
GAR 8(1) S24	Reported			
GAR 9(1)	Recorded Investigated Action Taken			
PUBLIC SITE				
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			
PERSONAL SAFETY EQUIPMENT				
	Items Issued:			
GSR 2(3)	Items Required:			
S23	(What is the payment on each item?)			
SAFETY PLANS				
FIRST AID				
GSR 3(6)	Name(s) of First Aider(s):			
CR 4(1)(3)	Client's Health & Safety Specification			
CR5	Principal's contractor H&S Plan			

FIRE HAZARD & PRECAUTIONS				
GSR 4	Flammables used, waste, hot work, diesel, fuel, gas			
ER 9(1)	Portable Extinguishers			
ELECTRICAL INSTALLATIONS & MACHINERY				
CR22	Guarding & PPE to Electrical Installations			
ILLUMINATION				
ER 3(6)	Dangerous Places and signage as well			
	Housekeeping			
ER6(2)(b),(c), ()	Clear space storage			
ER6(3)	Disposal of waste			
EXCAVATIONS				
CR 11(3)(l)	Barricades (plus illumination!)			
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 (plus illumination!)			
	Floor slab sides, Shafts (plus illumination!)			
SITE EQUIPMENT				
GSR 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			

WARNING: Under no circumstances shall any work of any nature whatsoever on any ASBESTOS material is undertaken unless the work is entrusted and mandated to a “REGISTERED ASBESTOS CONTRACTOR” in terms of the Asbestos Regulations. [CR 12(9)] (Contact the Regional Manager’s Office)

31 HEALTH AND SAFETY FILE COMPILATION AND CONTENTS (Document attached)

31.1 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:

31.2 The content of CR 5 is pivotal when mandatory appointments are contemplated.

32 GUIDE TO THE GENERAL ADMINISTRATIVE REGULATIONS (Document attached)

33 IMPORTANT CONTACT DETAILS (HEALTH & SAFETY ONLY) (Document attached)

34 “ATTACHMENTS”

- 34.1 HEALTH AND SAFETY FILE COMPILATION AND CONTENT
- 34.2 GUIDE TO THE GENERAL ADMINISTRATIVE REGULATIONS
- 34.3 EMERGENCY CONTACT DETAILS - HEALTH & SAFETY ONLY

35 HEALTH AND SAFETY FILE COMPILATION & CONTENTS

- 35.1 This document serves as a guide to Principle Contractors and Contractors (and their agents) to assist 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)]”

- 35.2 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.

36 TYPES OF REGISTERS

- 36.1.1 Accident/Incident Register (Annexure 1 of the General Administrative Regulations)
- 36.1.2 H&S Representatives ('SHE - Reps') Inspection Register;
- 36.1.3 Arc & Gas Welding & Flame Cutting Equipment Inspections;
- 36.1.4 Inspection of Cranes'
- 36.1.5 Inspection of Ladders
- 36.1.6 Inspection of mobile plant and other machinery
- 36.1.7 Inspections of scaffold
- 36.1.8 Inspections of hand tools and electrical power tools
- 36.1.9 Inspection of Vessels under Pressure plus all other excluded under VUP regulations
- 36.1.10 Fire-fighting equipment

36.2 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 14.10.3

36.3 Documents are as follows:

- 36.3.1 Full version of the copy of OHSAct (updated) (General Administrative Regulation 4.)
- 36.3.2 Proof of Registration and good standing with a COID Insurer (CR 4(1)(g))
- 36.3.3 Appointments – in terms of the Construction Regulations * [See references Page 4]
- 36.3.4 Notification of Construction Work – Annexure 1 [CR 3]
- 36.3.5 Scope of work [CR 5(9)]
- 36.3.6 Records of drawings, designs, materials used and similar information concerning the completed structure[CR 5(8)]
- 36.3.7 H&S Specifications [CR 4]
- 36.3.8 H&S Plan – Principal Contractor, Contractor & Sub-contractors [CR 5(1) & (4)]
- 36.3.9 Proof of Periodic Audits [CR 4, 5 & 6]
- 36.3.10 List of all Contractors (accountable to Principal Contractor) on site [CR 5(9)]
- 36.3.11 Contractor Agreements (MANDATORY AGREEMENTS) [CR 5(9)] [section 37(2)]
- 36.3.12 Input by Construction Safety Officer [CR 6(7)]

- 36.3.13 Risk Assessment [CR 7(1)]
- 36.3.14 Copy of Risk Assessment [CR 7(2)]
- 36.3.15 Medical Certificates of Fitness - Cranes [CR 20(g)]
- 36.3.16 Medical Certificates of Fitness - Construction vehicles [CR 21(1)(d)(ii)]
- 36.3.17 Medical Certificates of Fitness – Suspended platforms [CR 15(12)(b)]
- 36.3.18 Proof of H&S Induction Training [CR 7(4) & (7) & (9)(b)]
- 36.3.19 Proof of training on Hazards and Work Related Procedures [CR 7(4)]
- 36.3.20 Fall Protection Plan (building constructions) [CR 8]
- 36.3.21 Designer notice to contractor of dangers and hazards relating to construction work [CR 9(2)(b)]
- 36.3.22 Drawings design of structure [CR 9(3)]
- 36.3.23 Records of Inspections of Structure [CR 9(4)]
- 36.3.24 Maintenance records – structure safety [CR 9(5)]
- 36.3.25 Record Excavation Inspection [CR 11(3)(h)]
- 36.3.26 Method Statement – Excavation Work [CR 11(3)(k)]
- 36.3.27 Method Statement – Demolition Work [CR 12(2)]
- 36.3.28 Method Statement – Demolition Work (use of explosives) [CR 12(11)]
- 36.3.29 Operational Compliance Plan – Suspended Platforms [CR 15(2)(c)]
- 36.3.30 Certificates, design calculations, sketches and test results [CR 15(3)]
- 36.3.31 Examination results [CR 15(9)]
- 36.3.32 Suspended Platform Inspection and Performance Test records [CR 15(11)]
- 36.3.33 Proof of Training [CR 15(12)(c)]
- 36.3.34 Proof of Training [CR 12(1)]
- 36.3.35 Proof of Training [CR 21(1)(d)(i)]
- 36.3.36 Material Hoist Inspections [CR17(8)(c)]
- 36.3.37 Maintenance Records Material hoist [CR17(8)(d)]
- 36.3.38 Record Batch Plant Maintenance & Repair [CR18 (9)]
- 36.3.39 Register for control of cartridges/nails studs – explosive powered tools [CR19(2)(g)(ii)]
- 36.3.40 Findings and control measures of daily inspections Construction Vehicles & Mobile Plant [CR21(1)(j)]
- 36.3.41 Record of Temporary Electrical Installation Inspections [CR22(d)]
- 36.3.42 Record of Electrical Machinery Inspections [CR22(d)]
- 36.3.43 Proof of Training [CR 27(i)]
- 36.3.44 Evacuation Plan [CR 27(l)]
- 36.3.45 H&S Rep & Committee Members details
- 36.3.46 H&S Committee Meetings' Minutes
- 36.3.47 Other appointments in terms of OHSAct 85 of 1993

37 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':

- 37.1 Details of Inspections (by Department of Labour)
- 37.2 Recording and Investigation of Incidents – Annexure 1 [GAR 9(1-3)]
- 37.3 Action taken on all incidents [GAR 9(4)]
- 37.4 Certificates of Competency in First Aid [GSR 3(4)]
- 37.5 Record of Medical Surveillance required in terms of OHASA
- 37.6 Proof of compliance with Asbestos Regulation requirements (WHERE APPLICABLE)
- 37.7 Proof of compliance with Major Hazard Installation requirements

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

- 38.1 PRINCIPAL CONTRACTORS- [CR 4(1) (c)]
- 38.2 CONTRACTORS- [CR 5(3) (b) + (11)]
- 38.3 COMPETENT PERSONS- [CR 6(1) + (2)]
- 38.4 CONSTRUCTION SAFETY OFFICER- [CR 6(6)]
- 38.5 RISK ASSESSOR- [CR 7(1) + (4)]
- 38.6 FALL PROTECTION PLANNER- [CR 8(1)(a)]
- 38.7 FORMWORK & SUPPORT SUPERVISOR- [CR 10(a) + (e) + (f)]
- 38.8 EXCAVATION SUPERVISOR- [CR 11(1) + (3)(b)(ii)(b) + (3)(k)]
- 38.9 DEMOLITION SUPERVISOR- [CR 12(1) + (2) + (3) + (11)]
- 38.10 SCAFFOLD SUPERVISOR- [CR 14(2)]
- 38.11 SUSPENDED WORK SUPERVISOR- [CR 15(1) + (2)(c) + (8)(c) + (13)]
- 38.12 MATERIAL HOISTS INSPECTOR- [CR 17(8)(a)]
- 38.13 BATCH PLANT OPERATOR [CR 18(1) + (7)]
- 38.14 EXPLOSIVE POWER TOOLS INSPECTOR- [CR 19(2)(b) + (2)(g)(i)]
- 38.15 CRANE OPERATOR- [CR 20(f)]
- 38.16 CONSTRUCTION VEHICLE OPERATOR- [CR 21(1)(d)(i) + (1)(j)]
- 38.17 ELECTRICAL INSTALLATIONS INSPECTOR- [CR 22(d) + (e)]
- 38.18 STACKING & STORAGE SUPERVISOR- [CR 26(a)]
- 38.19 FIRE EQUIPMENT INSPECTOR- [CR 27(h)]
- 38.20 DESIGNER- [CR 9(2)]

39 EMERGENCY CONTACT DETAILS

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

PERSON	SERVICE	NUMBER	CONTACT
	Hospital		
	Ambulance		
	Water		
	Electricity		
	Police		
	Fire Brigade		
	Engineer		

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