



TENDER DOCUMENT
FOR
REPLACEMENT OF INFILL HOUSING IN DIBENG AND
OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY
(NORTHERN CAPE)
MUNICIPALITY

ENQUIRY NUMBER: NC/001/2020/B

NAME OF BIDDER: _____

CLOSING DATE: **18th DECEMBER 2020**

CLOSING TIME: **12H00 noon**

DELIVERY ADDRESS: Tenders should be submitted
electronically in well labelled folders,
with the subject; **SIOC-CDT TENDER**
FOR INFILL HOUSING PROJECT –
REF: NC/001/2020/B

E mail to: scm@sioc-cdt.co.za

or submit to the following address:

SIOC – CDT Office Park

Block A Ground Floor

Cnr Hendrick van Eck & Ian Flemming Road

Kathu 8460

November 2020

SIOC COMMUNITY DEVELOPMENT TRUST

ENQUIRY NO: NC/001/2020/B

**REPLACEMENT OF INFILL HOUSING IN DIBENG AND
OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY
(NORTHERN CAPE)**

TENDER DOCUMENT - TABLE OF CONTENT

NO.	DOCUMENT	PAGE
1	TENDER ENQUIRY	1 to 7
2	FORM OF TENDER	8 to10
3	INSTRUCTIONS TO TENDER	11 to 16
4	PREAMBLE TO RE MEASUREABLE BILLS OF QUANTITIES	17 to 18
5	BILLS OF QUANTITIES	XXXX
6	HEALTH AND SAFETY SPECIFICATION	1 to 29
7	CHANGES TO STANDARD JBCC GENERAL CONDITIONS IOF CONTRACT	30 to 37
8	ANNEXURE A - REFERENCE DRAWINGS	



TENDER ENQUIRY

ENQUIRY NO: NC/001/2020/B

DATE: NOVEMBER 2020

Company:

Attention:

Fax no:

Tel no:

E- mail:

From:

Originators Tel No.:

**NOTE: ALL TENDERERS MUST CLEARLY STATE THE ABOVE ENQUIRY NUMBER:
NC/001/2020/B
FAILURE TO COMPLY MAY RESULT IN REJECTION OF YOUR TENDER.**

INTRODUCTION AND BACKGROUND

SIOC Community Development Trust has undertaken to Upgrade of Infill Housing in Dibeng and Olifantshoek in the Northern Cape Province. This tender is for the main contract for the construction thereof.

NOTES:

Drawings will be issued for construction details.

SIOC Community Development Trust Specifications form part of the terms and conditions of this enquiry, and it is the responsibility of the Tenderer to make himself fully aware of the contents of

the Specifications and failure to do so shall not relieve the Tenderer of their obligations and responsibilities.

You are not allowed to change any information on any document or specification and you are required to adhere to the applicable documentation in full.

This Tender Enquiry shall be read in conjunction with the "Scope of Work" and bills of quantities.

The Contractor must ensure that they familiarize themselves with the scope, specific requirements and site conditions in order to provide an accurate bid.

1. Introduction

The Employer herewith enquires tenders for the Upgrade of Infill Housing in Dibeng and Olifantshoek in the Northern Cape Province as indicated in the scope of works.

ONLY THOSE TENDERERS WHO ARE LOCATED WITHIN JOHN TAOLO GAETSEWE (JTG) DISTRICT / NORTHERN CAPE PROVINCE AND REGISTERED WITH THE CIDB, OR ARE CAPABLE OF BEING SO PRIOR TO THE EVALUATION OF SUBMISSIONS, IN A 7GB OR HIGHER CLASS OF CONSTRUCTION WORK, ARE ELIGIBLE TO SUBMIT TENDER

2. Site Locations

As per indication at compulsory briefing meeting

3. Scope of Work

3.1 General

The project site is situated on a "brownfield" occupied site with residence of small children including the elderly who will need temporary accommodation during the construction phases thus the contractor will be required to provide temporary Park-Homes accommodation on site for the duration of the project in line with the programme of the works.

The project consists of the Upgrading of Ten (10) Infill Housing in Dibeng, ten (10) Infill Housing in Diepkloof and Seventy (70) Infill Housing in Olifantshoek including the removal of asbestos roofing and demolition of existing buildings per stand. The building of new building structure consisting of raft foundations, external one brick wall, internal half brick wall, external plaster and paint finish, timber roof structure including ceiling and IBR roof covering with roof gutters and downpipe per stand and complete electrical installation at Olifantshoek, Dibeng and Diepkloof in the Northern Cape Province.

The external works will also comprise of sewer and water reticulation boundary fence and gate.

Upon completion of the work on site, the following compliance documents / certificates will be required from the main contractor:

- a) Electrical Certificates of Compliance and Form 4 of SANS 10400,
- b) Certificate of Compliance (Institute of Plumbing SA or SA Plumbing Industry Board) & Form 4 of SANS 10400,
- c) Gas Certificate and Form 4 of SANS 10400 (where applicable),
- d) Fire Certificate and Form 4 of SANS 10400,
- e) Certificate of Roof Truss and Form 4 of SANS 10400,
- f) Glazing Certificate,
- g) Certificate of Protection of Soil Insecticides, and
- h) Any other certificate which is applicable on a project of this nature.

3.2 Work Included

Tenderers should take note that in order to facilitate maximum local community and enterprise participation certain portions of works will be sub contracted by means of either Nominated / Selected sub contracts or Direct Contracts.

The Client reserves the right to omit any or all of the works in this tender without any claim for loss of profit by the Contractor. The Client also reserves the right to omit any portion of the scheduled works allowed for in this tender without any claim for loss of profit by the Contractor.

Tenderers should make themselves fully aware of the meaning and contractual implications of both Nominated/Selected sub-contractors and Direct contractors. No claim for extras will be entertained due to the tenderer failing to do so.

3.3 Works to be done by Nominated/Selected Sub Contracts

The contractor shall call for quotations from local specialists selected by the Employer and/or the contractor, on documents prepared by the Employer or the relevant consultant, in accordance with the Conditions of Contract and in conjunction with the Representative/Agent and the contractor shall in consultation with the relevant consultant adjudicate the tenders. The contractor shall

upon the final decision of the Representative/Agent appoint the successful tenderer who shall become a Nominated or Selected sub-contractor to the contractor. Privity of contract shall not be created between the Employer and the sub-contractor by the method of selection, tender enquiry, adjudication and appointment:

3.4 Work to be completed by Local Sub-Contractors

It is a requirement that minimum of 60% of the Building Work Trades be subcontracted to local subcontractors and local enterprises .This is part of Local Enterprise Participation (LEP) Initiative by SIOC CDT. These subcontractors will be domestic subcontractors to the main contractor and no contractual relationship will exist with the client. The use of these local subcontractors will not relieve the main contractor of any contractual obligations. The quality of workmanship and programming of the works remain the responsibility of the main contractor. To this end, **THE MAIN CONTRACTOR SHALL BE REQUIRED TO SUBCONTRACT THE FOLLOWING WORK PACKAGES TO LOCAL CONTRACTORS:**

- Brickwork for Superstructure
- Plastering – Interior and Exterior
- Flooring
- Ceilings
- Plumbing and Drainage
- Metalwork – (for windows and Frames)
- Carpentry and Joinery – (Doors and Kitchen)
- Painting
- Glazing
- Ironmongery
- Fencing
- Landscape

Record of amounts spent on local sub-contractors and local enterprises must be reported on a monthly basis. Failure to comply with the said requirement will result in penalties been applied. The penalty for non-compliance will be calculated as a sum equal to 10% of the difference between the required participation goal and the achieved/actual local participation

4. Applicable Legislation/Codes of Practice/Standards The law of the Republic of South Africa will apply Tenderer is referred to:

- a) The latest revision of the “MODEL PREAMBLES FOR TRADES forming part of the Bill of Quantities” issued by the Association” of South African Quantity Surveyors.
- b) “SANS 1200” for preambles on workmanship and materials

5. Quality assurance

All work will be conducted in accordance with the Employer’ specifications.

6. Price Basis:

All prices or rates inserted in these bills of quantities shall, unless otherwise stated, include for materials, duty, taxes other than Value Added Tax (VAT), making, conveyance and delivery, unloading, storing, unpacking, hoisting, labour setting, fitting and fixing in position, cutting and waste, patterns, models and templates, plant, temporary works, return of packings, establishment charges, profit and all other obligations arising from the Conditions of contract

7. Payment Terms

As set out in the JBCC Conditions of Contract.

8. Queries and Contact Persons

Joseph Sure

Email: info@cd-sa.co.za

jabulile Mndebele

jabulile@sioc-cdt.co.za

9. Applicable documentation

All drawings as listed in SPECIFICATIONS. The South African Building Regulations.

All international and national standards as listed in SPECIFICATIONS.

10. Conditions of Contract

10.1 The agreement is to be the JBCC Series 2000 Principal Building Agreement prepared by the Joint Building Contracts Committee, July 2007 Edition 5.

10.2 The preliminaries are to be the JBCC Series 2000 Preliminaries prepared by the Joint Building Contracts Committee, November 2007 Edition and shall be deemed to be incorporated herein.

10.3 These Bills of Quantities

(Note: Should any of the terms and conditions of this Bills of Quantities be at variance with the terms and conditions of the Conditions of Contract, or the Standard Preliminaries then the relevant terms and conditions of this Bill of Quantities shall supersede the conflicting terms and conditions of the Conditions of the Contract or the Standard preliminaries)

10.4 The Drawings.

10.5 Documents to be provided by the Contractor in terms of the requirements of this Bill of Quantities.

APPLICABLE TERMS

TENDERERS MUST CLEARLY STATE:

TENDER CLOSING DATE	: 18th DECEMBER 2020
ENQUIRY NO.	: NC/001/2020/B
SUBJECT	: REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)
TIME	:12H00 noon
TENDERER	:.....

Tenders should be submitted **electronically** in well labelled folders, with the subject; **SIOC-CDT TENDER FOR INFILL HOUSING PROJECT – REF: NC/001/2020/B** E mail to: scm@sioc-cdt.co.za or submit to the following address: **SIOC-CDT Office Park, Block A Ground Floor Cnr Hendrick van Eck & Ian Flemming Road Kathu 8460**

Tenderers are to return the completed Tender Document by no later than the time and date specified.

SIOC Community Development Trust is not bound to accept either the lowest or any portion of any tender and will not disclose reasons for selecting one tender in favour of another.

SUBMISSION OF TENDER DOCUMENTS

COMPLIANCE DOCUMENTS

Documents required to be submitted and /or signed, if not included disqualifies the tenderer

- Signed form of Tender
- Priced Bill of quantities
- Company CK document
- Original Certified Copies Identity Documents of Director (Not older than three months)
- Valid Tax Clearance Status Pin/ Original Valid Tax Clearance Certificate
- Certificate of good standing (COIDA)
- CIDB Registration Certificate
- Proof of NHBRC registration,
- Letter of intent of insurance/Liability to the tune of R5,000,000.00
- Proof of Company location within John Taolo Gaetsewe (JTG) District /Northern Cape Province (Municipal Account for company or lease Agreement if renting)

EVALUATION DOCUMENTS

Documents required for the evaluation of Tenders

- BBBEE Certificate / Sworn Affidavit
- List of Key Personnel (Including CVs and Original certified Copies of Certificates)
- List of similar project executed previously (Include reference letters and Practical Completion Certificates)
- List of plants and Equipment (Include proof of ownership or letter from hire company)
- Last audited annual financial statement

TENDER EVALUATION

Two stage evaluation shall apply

Stage 1 - Technical/Functionality Evaluation – To assess ability of tenderer to provide goods and services in line with specifications set out in the tender documents

Stage 2 –Financial Offer / BBBEE Evaluation – Assessment to which bid is awarded

Stage 1 - Technical/Functionality Evaluation

Technical/Functionality Criteria

Criterion	Maximum Score Per Criterion
Company Related work Experience	20
Key Staff competence	20
Experience of Key staff	15
Plant and Equipment	20
Financial Strength Current Ratio	15
Locality	10
TOTAL	100

A minimum threshold of 70 points is required on functionality to be considered for financial offer / BBBEE Evaluation

Technical/Functionality Scoring			Points
1	Company Related Work Experience		20
	Points will be awarded for the 4 No highest value projects successfully completed within the last five years for which an appointment letter from the client and a completion certificate (signed by consultant and Employer) is submitted		
	Completed projects from R8,0 Million and Less than R10,0 Million in the last 5 years		2
	Completed projects from R 10,0 Million but less than R15,0 Million in the last 5 years		3
	Completed projects from R 15,0 Million but less than R20,0 Million in the last 5 years		4
	Completed projects larger than R20,0 Million in the last 5 years		5
2	Key Staff Competence		20
Contract Manager	BEng /BSc /B Tech in Construction related		10
	National Diploma in Construction related field		5
	Less than above		2
Site Agent	BEng /BSc /B Tech in Construction related		5
	National Diploma in Construction related field		3
	Less than above		1
General Foreman	Trade qualification NQF 4 - Labour intensive Construction Methods		2
Health and Safety Officer	Accredited OHS qualification by SAIOSH and SACPCMP or any recognised accredited organisation		3
3	Experience of Key Staff		15
Contract Manager	10 years or more		5
	5 years to 9 years		3
	Less than 5 years		1
Site Agent	10 years or more		4
	5 years to 9 years		2
	Less than 5 years		1
General Foreman	10 years or more		3
	5 years to 9 years		2
	Less than 5 years		1
Health and Safety Officer	10 years or more		3
	5 years to 9 years		2
	Less than 5 years		1

4	Plant and Equipment		20
Bakkies	3 No Bakkie		4
	2 No Bakkie		3
	1 No Bakkie		1
Tipper Truck	3 No Tipper Truck		6
	2 No Tipper Truck		4
	1 No Tipper Truck		2
TLE	1 No TLB		4
Water Tanke	5 Ton Water Tanker		2
Hand Compactor	2 No Hand Compactor		2
	1 No Hand Compactor		1
Wheel Barrow	5 No Wheel barrow		2
	3 No Wheel barrow		1
	1 No Wheel barrow		0
5	Financial Streight Current Ratio = Current Assets / Current Liabilities		15
	Ratio > 2		15
	Ratio > 1,5 < 2		10
	Ratio > 1,25 < 1,5		7,5
	Ratio > 1,0 < 1,25		5
	Ratio = 1,0 < 1,0		2

6	Locality		10
	Within Gamagara Local Municipality		10
	Within John Taolo Gaetsewe (JTG) District		5
	Within Northern Cape Province		2

Stage 2 – Financial Offer / BBBEE Evaluation

The following preference evaluation system shall be applicable

- 80/20 System required where the project estimated Rand value is to be up to R50,000,000.00
- 90/10 System required where the project estimated Rand value is above R50,000,000.00

The value of this bid is estimated to exceed/~~not exceed~~ R50, 000,000.00 (all applicable taxes included) and therefore **80/20** or 90/10 point system shall be applicable.

Financial Offer Scoring

$$Ps = 80[1 - (Pt - Pmin/Pmin)] \quad \text{or} \quad Ps = 90 [1 - (Pt - Pmin/Pmin)]$$

Where

Ps = Points scored for price of bid under consideration

Pt = Price of bid under consideration

Pmin = Price of lowest acceptable bid

BBBEE Scoring

BBBEE Status level of Contributor	Number of Points (90/10) System	Number of Points (80/20) System
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-Compliant Contributor	0	0

FORM OF TENDER

FOR USE WITH:
PRINCIPAL, NOMINATED/SELECTED AND MINOR WORKS AGREEMENTS

PROJECT REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

PRINCIPAL AGENT : CHARISMA DESIGN STUDIOS ARCHITECTS (CDSA)
EMPLOYER : SIOC COMMUNITY DEVELOPMENT TRUST

NAME OF TENDERER : _____

WORKS DESCRIPTION : REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK
IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

TENDER CLOSING DATE : 18th December 2020

FORM OF TENDER	in terms of a:	Principal Building Agreement	Yes
		N/S Subcontract Agreement	No
		Minor Works Agreement	No

PRINCIPAL AGENT OR AGENT CHARISMA DESIGN STUDIOS ARCHITECTS (CDSA)

No.6 Acacia Street, Kuruman
P.O. Box 459
Mothibistad 8474

Contact Details

Tel: 053 - 712 0197/ H.O: 011 5400 192/3
Fax: 086 561 0605
e-mail: info@cd-sa.co.za

Employer _____ SIOC COMMUNITY DEVELOPMENT TRUST

Name of Tenderer _____

Postal address _____

Tel: _____

Fax: _____

e-mail: _____

1.0 CONDITIONS OF TENDER

1.1 PRINCIPAL, NOMINATED/SELECTED AND MINOR WORKS AGREEMENTS

- 1.1.1 The successful Tenderer will be appointed in terms of the JBCC Principal Building Agreement, JBCC Nominated/Selected Subcontract Agreement or JBCC Minor Works Agreement
- 1.1.2 Additions and alterations to such Agreement are clearly detailed in the schedule of the Agreement
- 1.1.3 All pre-tender information is set out in the Schedule. Variables requiring selection by the Tenderer are to be clearly marked for later inclusion in the Schedule
- 1.1.4 Any conditions or qualifications that are appended by the Tenderer, which are in variance with the conditions in this or the tender enquiry document, may invalidate the submitted Tender
- 1.1.5 Details of the amount of item 2.4.2 of tender sum are to be clearly designated in the tender documentation provided by the principal agent or agent
- 1.1.6 This Tender is to be submitted to the Employer, Principal Agent or Agent at the street address as indicated before the tender closing date and time as stated
- 1.1.7 Tenders will be opened in public directly after the stated closing time. Only the total tender sum as stated in 2.4.5 of each tender will be announced
- 1.1.8 The lowest or any tender will not be necessarily be accepted

1.2 NOMINATED / SELECTED SUBCONTRACT AGREEMENT ONLY

- 1.2.1 The contractor has been or will be appointed in terms of the JBCC Principal Building Agreement
- 1.2.2 Where the Tenderer is advised of the appointment of the Contractor after submission of this Tender, the Tenderer shall be entitled to make reasonable objection to being appointed by the Contractor
- 1.2.3 This tender is submitted to the Employer who will advise the Principal Agent, who is authorized in terms of the Principal Building Agreement, to appoint the successful Tenderer as a Nominated/Selected Subcontractor

2.0 THE TENDER

- 2.1 By the submission of this tender to the employer the tenderer offers and agrees to contract for, execute and complete the works/subcontract works for the tender sum as stated below
- 2.2 This tender shall remain in full legal force for 90 calendar days.
- 2.3 This Tender takes into account the documents listed hereunder or as per the attached addendum by the Principal Agent for the purpose of preparing and submitting this Tender

Document list or addendum identification

2.4 TENDER SUM (Inclusive of Vat)

R_____ (.....
.....
.....) Tender Sum in words

Thus done and signed at _____ on _____

Name of signatory

Capacity of authorized signatory

for and on behalf of the tenderer who by
signature hereof warrants authorization
hereto

As witness

INSTRUCTIONS TO TENDERERS

Contents	
Instruction to Tenderers	
1.0	Instructions
2.0	Submission of Tender
3.0	Validity of Tender
4.0	Extensions to Enquiry Closing Date
5.0	Clarification of Enquiry Documentation
6.0	Expenses in the preparation of Tenders
7.0	Sufficiency of Tender
8.0	Main offer and alternative proposals
9.0	Contract Conditions
10.0	Contract price Adjustment
11.0	Penalties for Late Completion
12.0	Acceptance of Tender
13.0	Rejection of Tender
14.0	Confidentiality of Enquiry/Tender documentation
15.0	Employer's liability
16.0	Queries from Tenderers
17.0	Conversion to Contract Document
18.0	Acquaintance with Enquiry documents
19.0	Examination of Site and drawings
20.0	Forming of joint ventures or consortiums
21.0	Security clearance
22.0	Recruitment of labour
23.0	Local Contractors/suppliers/labourers/subcontractors
24.0	Permission to proceed
25.0	Addenda
26.0	General
27.0	Specific Instructions

1.0	Instructions																		
		1.1	<p>The Tender clearly marked "Original Tender" shall be submitted before the time and date stated in the Enquiry. Tender Submissions to include one soft copy.</p> <p>A Power of Attorney, if appropriate, authorising the signatories of the Tenderer to commit the Tenderer shall be included with the Tender.</p> <p>The Tender shall not be addressed and/or delivered to any individual person.</p> <p>Delivery address will be at:</p> <p>Tenders should be submitted electronically in well labelled folders, with the subject; SIOC-CDT TENDER FOR INFILL HOUSING PROJECT – REF: NC/001/2020/B E mail to: scm@sioc-cdt.co.za or submit to the following address: SIOC-CDT Office Park, Block A Ground Floor Cnr Hendrick van Eck & Ian Flemming Road Kathu 8460</p>																
2.0	Submission of Tender																		
		2.1	<p>TENDERS ARE TO BE CORRECTLY SEALED, ENDORSED, SIGNED AND DEPOSITED IN THE TENDER BOX, Office Park Block A Ground Floor SIOC - CDT - DEVELOPMENT TRUST OFFICES Tenders sent by post must be received prior to the above deadline.</p> <p>The postmark date will not be considered.</p> <p>Faxed Tenders will not be accepted</p> <p>Electronically submitted as stated above</p> <p>Oral Tenders will not be accepted.</p> <p>Tenders not correctly sealed, endorsed or signed may not be considered Late Tenders will not be accepted</p>																
		2.2	<p>The Tender documents shall be legible, duly completed, signed in manuscript and in black or blue ink and shall be submitted together with all accompanying correspondence and literature in a sealed envelope clearly labelled as follows</p> <table border="1"> <tr><td>TENDER</td><td></td></tr> <tr><td>PROJECT NAME</td><td></td></tr> <tr><td>ENQUIRY NUMBER</td><td></td></tr> <tr><td>CLIENT NAME</td><td></td></tr> <tr><td>DESCRIPTION</td><td></td></tr> <tr><td>FOR ATTENTION</td><td></td></tr> <tr><td>CLOSING DATE</td><td></td></tr> <tr><td>TENDERERS NAME</td><td></td></tr> </table>	TENDER		PROJECT NAME		ENQUIRY NUMBER		CLIENT NAME		DESCRIPTION		FOR ATTENTION		CLOSING DATE		TENDERERS NAME	
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3.0	Validity of Tender																		
		3.1	The Tender shall remain valid and open for acceptance by the Employer for a period of 90 (ninety) days from the Enquiry closing date.																
4.0	Extensions to Enquiry closing date																		
		4.1	A request for an extension to the Enquiry closing date will only be considered by the Manager Purchasing/Procurement, if the written request is received at least 5 days prior to the Enquiry closing date and time.																
5.0	Clarification of Enquiry documentation																		
		5.1	The Tenderer shall examine all documentation provided by the Employer. Should there be any doubt as to the intent or meaning of the documentation, and/or any inconsistency between the various parts, the Tenderer shall seek clarification from the Procurement Manager before																

			<p>submitting a Tender. All additional information and/or clarifications supplied to any Tenderer will be provided to all other Tenderers.</p> <p>Wherever the word "Contractor" appears in the documentation it shall mean the successful Tenderer.</p> <p>No alterations, erasures, omissions or additions are to be made to the text of the enquiry document. Should any such alteration, erasure, omission or addition be made it will not be recognized and the reading of the document as prepared by the Project Manager will be adhered to.</p>
6.0	Expenses in the preparation of Tenders		
		6.1	The Employer shall not be responsible for any expenses and/or losses that the Tenderer may incur in the preparation and submission of the Tender
7.0	Sufficiency of Tender		
		7.1	No alterations and/or adjustments shall be allowed once a Tender has been submitted. In the event of any discrepancies occurring between the prices detailed by the Tenderer in the forms provided with the Enquiry and those contained in any additional letter or document submitted by the Tenderer, the former shall prevail
8.0	Main offer and alternative proposals		
		8.1	The Tenderer shall submit the main offer in accordance with the commercial and technical requirements as set out in the Enquiry. The Tenderer may in addition to the main offer submit an alternative proposal clearly indicating the technical, financial, contractual advantages and environmental impacts to the Employer. The acceptance and/or rejection of such alternative proposals shall be at the sole discretion of the Employer.
9.0	Contract Conditions		
		9.1	The conditions of contract shall be the conditions of contract referred to in the Enquiry. The Tenderer's conditions of contract shall not be accepted in its entirety
10.0	Contract price adjustment		
		10.1	The tenderer shall submit Fixed and Firm prices. All fluctuations in costs shall be for the account of the tenderer.
11.0	Penalties for late Completion		
		11.1	Penalty per calendar day shall be calculated as 0.05% of the Tendered Amount inclusive of Vat.
12.0	Acceptance of Tender		
		12.1	The Employer reserves the right to reject or accept any portions or the whole of the Tender, without being obliged to give reasons for such
13.0	Rejection of Tender		
		13.1	A Tender may be rejected if: tender is received after the closing date and time stipulated in the Enquiry or subsequent official amendment thereto;
		13.2	It contains any erasure, alteration, text addition or irregularity; Price Schedules, Forms of Tender and/or Bills of Quantities are left blank without being endorsed with the words "no quote", "not applicable" and/or "included elsewhere".
		13.3	it is considered unbalanced, or does not include the required information necessary for proper comparison and evaluation
		13.4	it is not submitted on the forms provided or is not in accordance with the commercial and technical requirements of the Enquiry
		13.5	the Tenderer fails to attend a Compulsory Site Briefing meeting, if requested in the Enquiry and/or by the Project Manager
14.0	Confidentiality of Enquiry/Tender documentation		

		14.1	The Enquiry issued by the Employer and the Tender submitted by the Tenderer shall be treated as strictly confidential and no aspects thereof shall be disclosed to any third parties, except as necessary for the purpose of the Enquiry
15.0	Employer's liability		
		15.1	The Tenderers are hereby advised that the Employer will not accept any financial liability whatsoever should the Tenderers or prospective Tenderers wish to place orders on their suppliers and/or Subcontractors prior to receiving the written official E.D. Order/ Contract.
16.0	Queries from Tenderers		
		16.1	<p>Any points of clarification that tenderers may require, with regards the above-mentioned enquiry, shall be communicated in writing no later than one week before the closing date. These shall be addressed to:</p> <p>Attention: Joseph Sure (Principal Agent) E-mail: info@cd-sa.co.za</p> <p>AND</p> <p>SIOC-CDT Procurement Attention: Jabulile Mndebele Email: jabulile@sioc-cdt.co.za</p> <p>Unless questions relate to method of operation and a specific request is received from Tenderers to treat a particular question/answer as confidential then all Tenderers will receive a copy of all questions received together with the answers. These questions/answers shall constitute the rulings and will be incorporated in the contract documents.</p>
17.0	Conversion to Contract Document		
		17.1	The submitted tender document shall, upon evaluation and adjudication, become the final contract between the Employer and the successful Tenderer, together with the appendices, annexures, instructions, specifications, drawings and conditions presently contained herein and shall be further amended to incorporate any modifications, clarifications, instructions and resubmissions as may be agreed between the Employer and the successful Tenderer.
18.0	Acquaintance with Enquiry documents		
		18.1	By submission of a tender, the Tenderer will be deemed to have acquainted himself fully with the enquiry documents, the relevant site and Employer requirements and laws and all aspects of the work envisaged in the document prior to pricing and submission of his tender.
19.0	Examination of Site and drawings		
		19.1	The Tenderer is advised to examine the drawings, where applicable, and visit the Site prior to the submission tender documentation to acquaint himself with local conditions, access, the extent and nature of the operations, supply of and conditions affecting labour and the execution of the contract generally, as no claim on the grounds of want of knowledge in such respects will be entertained.
20.0	Forming of joint ventures or consortiums		
		20.1	<p>Should the Tenderer consider entering into any joint venture or consortium agreements with any other Tenderer or Tenderers or any other party, the Project Manager must be notified of such intentions within 5 days of the receipt of this enquiry document by the Tenderer.</p> <p>Joint ventures formed between the Tenderer and local enterprises are subject to the scrutiny and approval of the Employer. Such approval shall in no way relieve the Tenderer from its responsibility in terms of the enquiry and shall not be construed as a nominated Subcontractor relationship.</p>

			Any such notice given to the Project Manager will include full details of the proposed joint venture/consortium arrangements and address such aspects as legal contracting party, shareholding of joint venture/consortium members, financial investment, commitments of the joint venture/consortium members, heads of agreement and any other relevant information required by the Project Manager to enable the Employer to approve such joint venture or consortium tender submissions
21.0	Security clearance		
		21.1	The Tenderer is to allow for all costs associated with obtaining security clearance.
22.0	Recruitment of labour		
		22.1	The Tenderers are advised that under no circumstances will recruitment of any labour on or adjacent to the Employer's property be allowed. Recruitment meetings can be held at a nearby public place. The contractor may not be permitted to use imported unskilled labour if such labour is available within the recipient community. Should the contractor experience any difficulties with the community, these difficulties shall immediately be brought to the attention of the CLO and Principal Agent (the community excludes employees of the contractor).
23.0	Local contractors/ suppliers/ labourers/ subcontractors		
		23.1	The Tenderer is advised of the importance placed on creating job opportunities for local residents. Whilst the Tenderer will be permitted to bring in skilled expertise it is a requirement of the enquiry for the Tenderer to use 100% local unskilled labour during the execution of the contract. The Tenderer is to support the proposed training programme for local labour and emerging contractors to be employed on the project as part of Contractor Development Initiative. The Principal Agent will require an auditable monthly statement from the successful Tenderer, detailing, but not limited to, tendered values, actual values to-date and anticipated future values
		23.2	It is a requirement that thirty percent 60% of the building trades be subcontracted to local subcontractors and local enterprises. These subcontractors will be domestic subcontractors to the main contractor and no contractual relationship will exist between the subcontractors and the Employer. The use of these local subcontractors will not relieve the main contractor of any contractual obligations. The quality of workmanship and programming of the works remain the responsibility of the main contractor. Record of amounts spent on local sub-contractors and local enterprises must be reported on a monthly basis. Failure to comply with the said requirement will result in penalties been applied. The penalty for non-compliance will be calculated as a sum equal to 10% of the difference between the required participation goal and the achieved/actual local participation.
24.0	Permission to proceed		
		24.1	The successful Tenderer shall not start or carry out any Site establishment, work of a temporary nature or any work associated with the project or without having first obtained communication from the Principal Agent that they may proceed.
25.0	Addenda		
		25.1	Addenda to the Enquiry may be issued prior to the closing date for the purpose of modifications of whatsoever nature to the Enquiry documents. Any required change shall be included in the Tender. The Employer will not be bound by any informal explanation, clarification or interpretation, whether given orally or in writing that is not incorporated into the Enquiry by way of an addendum.
26.0	General		

		26.1	The Tenderer will not be provided with more than one set of the enquiry documents. Should a Tenderer decide not to submit a Tender, the Tenderer is requested to return immediately all documentation received. Tenders will not be opened publicly and no information regarding Tenders will be disclosed.
27.0	Specific Instructions		
		27.1	Tender specific instructions to be inserted in conjunction with Technical functions; specific focus on pricing structure and programme structure. 1. None

PREAMBLE TO RE-MEASURABLE BILLS OF QUANTITIES

1. These Bills of Quantities forms part of the Contract and shall be read in conjunction with the Agreement.
2. The Bills of Quantities includes as far as can be determined, every class of operation, construction, equipment or material which the Contractor is likely to be called upon to perform or supply. All rates entered in these Bills of Quantities shall cover all costs, charges and profits that may be considered necessary to cover all the Contractor's liabilities and obligations under the Contract. The work shall be provided complete and all times necessary for completion of the service in its entirety shall be allowed for and provided by the Contractor, whether specified in detail or not, and no extra price will be considered beyond the Bills of Quantities for any incidental or contingent work, labour or materials unless detailed by the Contractor in a covering letter submitted with his tender.
3. Contractors shall complete the Bills of Quantities and enter a unit rate and total amount against each item. Scheduled items shall not be grouped together and a lump sum entered against them. However, if any item is left un-priced it will be assumed that allowance has been made in other items to cover it.
4. The Bills of Quantities shall not be used for ordering purposes. Any ordering based on scheduled quantities shall be at the sole risk of the Contractor. The final quantities of items may vary from the quantities stated in the Bills of Quantities as dictated by the actual final details of the installations. No claim or adjustment of rates for expense or loss due to such variation will be considered unless the overall net total of such variations increases or decreases the original Contract Amount by more than 10% in which case any claim must be fully substantiated.
5. The pricing of items in the Bills of Quantities shall be such that the final total of the Bills of Quantities with the amount tendered. Contractors are advised to check their item extensions and total additions since the rates will be regarded as correct and the Contract Sum adjusted accordingly.
6. The final Contract Sum will be determined on the basis of unit prices in the Bills of Quantities applied to the actual measured extent of the Contract Works, and no allowance has been or will be made for waste. Where rates are not available for additional work carried out the value of such work will be determined by mutual agreement.
7. The Contractor shall submit his final measurements to the Employer at regular intervals, at the Employer's request, or for each completed section of the Works for the items to be measured. The Employer shall check and re-measure as required.
8. No alteration, erasure or addition is to be made to the text of any part of the Pricing Schedules. Should any alteration, erasure or addition be made it will not be recognised but the original wording will be adhered to.

9. Contractors shall offer equipment, materials and methods complying in all respects with the requirements of the Contract. Where equipment of particular manufacture is specified, the words "or equal" shall mean that the Contractor may offer equipment by other manufacturers provided that it is equal in all respects of quality, duty and application to the named equipment and complies with the Specification. Full details and manufacturer's literature shall be submitted to substantiate such substitutions, to enable the Employer to evaluate their validity.
10. Should a Contractor wish to offer alternative materials, equipment or methods to those specified, he shall enter descriptions of these alternatives, with priced rates where applicable, in a covering letter and clearly indicate acceptance of these alternatives.
11. The Works shall be carried out in strict accordance with the provisions of the accepted Offer unless the Employer shall sanction or request in writing that changes be made.

ENQUIRY NO: NC/001/2020/B

BILLS OF QUANTITIES

**REPLACEMENT OF INFILL HOUSING IN DIBENG AND
OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY
(NORTHERN CAPE)**

SIOC-CDT

SECTION A

INFILL HOUSING DIEPKLOOF X 10 UNITS

Item No	Quantity	Amount
<p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></p> <p><u>Disclaimer</u></p> <p>The JBCC Series 2000 Principal Building Agreement (code: 2101 July 2007 edition 5.0 reprint 1) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The JBCC Principal Building Agreement Contract Data EC and the JBCC Principal Building Agreement Contract Data CE form an integral part of this agreement</p> <p>The ASAQS Preliminaries (November 2007 edition) published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities</p> <p>Contractors are referred to the abovementioned documents for the full intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this agreement such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the abovementioned documents</p> <p>Where any item is not relevant to this specific agreement such item is marked N/A, signifying "not applicable"</p> <p><u>PREAMBLES FOR TRADES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p>Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles</p>		
<p>Carried Forward</p>	R	
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>		

	Brought Forward	R
<p>The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles</p>		
<p><u>PRICING OF PRELIMINARIES</u></p>		
<p>Should the contractor select Option A in terms of subclause 3.2.1 in the Contract Data - Contractor to Employer (CE) for the purpose of adjustment of these preliminaries, the amount entered into the amount column in these preliminaries is to be divided into one or more of the three categories provided namely Fixed (F), Value Related (V) and Time Related (T)</p>		
<p><u>SECTION A - PRINCIPAL BUILDING AGREEMENT</u></p>		
<p><u>Definitions (A1)</u></p>		
1	<p>Clause 1.0 - Definitions and interpretation</p> <p>The measuring system used for the preparation of the bills of quantities is the Standard System of Measuring Building Work (sixth edition, revised 1999) published by the Association of South African Quantity Surveyors [1.1]</p> <p>F:..... V:..... T:.....</p>	Item
<p><u>Objective and preparations (A2 - A14)</u></p>		
2	<p>Clause 2.0 - Offer acceptance and performance obligations</p> <p>F:..... V:..... T:.....</p>	Item
3	<p>Clause 3.0 - Documents</p> <p>Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT) [3.5]</p> <p>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 [3.9]</p> <p>F:..... V:..... T:.....</p>	Item
		Carried Forward
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>		R

Brought Forward

R

4 Clause 4.0 - Design responsibility
 F:..... V:..... T:.....

Item

5 Clause 5.0 - Employer's agents
 F:..... V:..... T:.....

Item

6 Clause 6.0 - Contractor's site representative
 F:..... V:..... T:.....

Item

7 Clause 7.0 - Compliance with laws and regulations

Without limiting the generality of the provisions of clause 7.0, the **contractor's** attention is drawn to the provisions of the Construction Regulations, 2014 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 reasonable provisions of the aforementioned health and safety specifications [7.1]

The **contractor** shall allow for and pay any levies required by the National Home Builders Registration Council (NHBRC). The **contractor** warrants that he is registered and will maintain registration with the NHBRC for the duration of this agreement [7.1]

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

Item

8 Clause 8.0 - Works risk
 F:..... V:..... T:.....

Item

9 Clause 9.0 - Indemnities
 F:..... V:..... T:.....

Item

10 Clause 10.0 - General insurances
 F:..... V:..... T:.....

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

11 Clause 11.0 - Special insurances
 F:..... V:..... T:.....

Item

12 Clause 12.0 - Effecting insurances
 F:..... V:..... T:.....

Item

13 Clause 13.0 - Assignment
 F:..... V:..... T:.....

Item

14 Clause 14.0 - Security
 F:..... V:..... T:.....

Item

Execution (A15 - A23)

15 Clause 15.0 - Preparation for and execution of the works

User Note

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

Item

16 Clause 16.0 - Site and access

The contractor shall work within the stand for each housing units as idicated on the Arhitectural Drawings [16.1]

The contractor shall make sure that existing toilets, electrical installations are kept in good working order and the diversion of services to the new permanent housing units are done without inconveniencing the current occupants taking into account current building regulations health and saftey specifications

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

Item

17 Clause 17.0 - **Contract instructions**
 F:..... V:..... T:.....

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

18 Clause 18.0 - Setting out of the works

The **contractor** shall notify the **principal agent** if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments [18.1].

F: V: T:

Item

19 Clause 19.0 - Temporary works and plant

Clause 19.1.1 - Enclosure of the works
 Clause 19.1.2 - Office accommodation
 Clause 19.2 - Advertising rights and notice boards

F: V: T:

Item

20 Clause 20.0 - **Nominated subcontractors**

Refer to the provisions on general attendance hereinafter

F: V: T:

Item

21 Clause 21.0 - **Selected subcontractors**

General attendance of **n/s subcontractors** for pricing by the **contractor** shall be in accordance with the **n/s agreement**. Notwithstanding this provision, general attendance shall be deemed to include for the **contractor** to provide free of charge to any n/s subcontractor such scaffolding as may reasonably be required by such **n/s subcontractor** for the execution of the relevant subcontract work

F: V: T:

Item

22 Clause 22.0 - Employer's direct contractors

F: V: T:

Item

23 Clause 23.0 - Contractor's domestic subcontractors

F: V: T:

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

Completion (A24 - A30)

24 Clause 24.0 - **Practical completion**
 F:..... V:..... T:.....

Item

25 Clause 25.0 - **Works completion**
 F:..... V:..... T:.....

Item

26 Clause 26.0 - Final completion
 F:..... V:..... T:.....

Item

27 Clause 27.0 - **Latent defects** liability period
 F:..... V:..... T:.....

Item

28 Clause 28.0 - Sectional completion **N/A**
 F:..... V:..... T:.....

Item

29 Clause 29.0 - Revision of date for **practical completion**
 The removal and replacement of materials and/or workmanship which do not conform to specification or the **contract drawings** shall not constitute grounds for the extension of the **construction period** nor for the adjustment of the **contract value** (Clause 29.3)

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

Item

30 Clause 30.0 - Penalty for late or non-completion
 F:..... V:..... T:.....

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

Payment (A31 - A35)

31 Clause 31.0 - Interim payment

The inclusion of **materials and goods** stored off **site** in the amount authorised for payment in terms of clause 31.4 shall be at the sole discretion of the **principal agent** and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank. Clause 31.6.5 is therefore not applicable [31.4.2, 31.6.5]

Materials and goods stored off **site** shall not be included in the amount authorised for payment [31.6.5]

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

Item

32 Clause 32.0 - Adjustment to the **contract** value

All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the **contractor** [32.13]

Where prices are submitted by the **contractor** or **n/s subcontractor** during the progress of the **works** in respect of **contract instructions** or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim **payment certificate**, there is to be no presumption of acceptance. Should the **principal agent** wish to accept any such prices prior to the issue of the **certificate of final completion**, it shall be in writing

The **contractor** shall not receive any mark-up for overheads and profit on any omission of tenant installation work or tenant installation work by others. Claims for loss or profit shall not be entertained [32.2]

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

Item

33 Clause 33.0 - Recovery of expense and loss

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

Item

34 Clause 34.0 - Final account and final payment

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

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

35 Clause 35.0 - Payment to other parties
 F:..... V:..... T:.....

Item

Termination (A36 - A39)

36 Clause 36.0 - Termination by **employer** - **contractor's** default
 F:..... V:..... T:.....

Item

37 Clause 37.0 - Termination by **employer** - loss and damage
 F:..... V:..... T:.....

Item

38 Clause 38.0 - Termination by **contractor** - **employer's** default
 F:..... V:..... T:.....

Item

39 Clause 39.0 - Termination - cessation of the **works**
 F:..... V:..... T:.....

Item

Dispute (A40)

40 Clause 40.0 - Settlement of disputes
 F:..... V:..... T:.....

Item

Contract variables (A41 - A42)

41 Clause 41.0 - Post tender provisions

 The **contractor** is to complete before submission of his tender the **JBCC** Principal Building Agreement **Contract Data CE**
 F:..... V:..... T:.....

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

42 Clause 42.0 - Contractual agreement

The required information of the contracting **parties** and the amount of the accepted **contract sum** shall be inserted in the **agreement** for signature of the agreement by the **parties**

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

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

SECTION B - PRELIMINARIES

Definitions and interpretation (B1)

43 Clause 1.0 - Definitions and interpretation

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

Item

Documents (B2)

44 Clause 2.1 - Checking of documents

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

Item

45 Clause 2.2 - Provisional **bills of quantities**

These **bills of quantities** are in multiple procurement format ie earthworks, plumbing and general and external works - are provisionally measured and the subsequent trades are **budgetary allowances** and/or selected/nominated subcontract amounts

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

Item

46 Clause 2.3 - Availability of construction documentation

The **budgetary allowances** and selected nominated/subcontract amounts allocated for subsequent trades included in this **agreement** will be separately procured, based on multiple procurement of selected/nominated subcontractors during the **construction period**

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

Item

Previous work and adjoining properties (B3)

47 Clause 3.1 - Previous work - dimensional accuracy

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

Item

48 Clause 3.2 - Previous work - defects

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

Item

49 Clause 3.3 - Inspection of adjoining properties

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

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

Samples, shop drawings and manufacturer's instructions (B4)

50 Clause 4.1 - Samples of materials
 F:..... V:..... T:.....

Item

51 Clause 4.2 - Workmanship samples
 F:..... V:..... T:.....

Item

52 Clause 4.3 - Shop drawings
 F:..... V:..... T:.....

Item

53 Clause 4.4 - Compliance with manufacturer's instructions
 F:..... V:..... T:.....

Item

Deposits and fees (B5)

54 Clause 5.1 - Deposits and fees
 F:..... V:..... T:.....

Item

Temporary services (B6)

55 Clause 6.1 - Water
 F:..... V:..... T:.....

Item

56 Clause 6.2 - Electricity
 F:..... V:..... T:.....

Item

57 Clause 6.3 - Telecommunication facilities
 F:..... V:..... T:.....

Item

58 Clause 6.4 - Ablution facilities
 F:..... V:..... T:.....

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

Prime cost amounts (B7)

59 Clause 7.1 - Responsibility for **prime cost amounts**

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

Item

Special attendance on n/s subcontractors (B8)

60 Clause 8.1 - Special attendance

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

Item

General (B9)

61 Clause 9.1 - Protection of the works

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

Item

62 Clause 9.2 - Protection/isolation of existing/sectionally occupied **works**

Existing ablution on each stand to be used by the residents for the duration of the project

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

Item

63 Clause 9.3 - Security of the **works**

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

Item

64 Clause 9.4 - Notice before covering work

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

Item

65 Clause 9.5 - Disturbance

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

Item

66 Clause 9.6 - Environmental disturbance

The **employer** has prepared an environmental management plan (EMP) (Refer to Annexure for a copy of the relevant plan). The **contractor** shall price opposite this item for compliance with all the requirements of such emp

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

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

		Brought Forward	R
67	Clause 9.7 - Works cleaning and clearing F:..... V:..... T:.....		Item
68	Clause 9.8 - Vermin F:..... V:..... T:.....		Item
69	Clause 9.9 - Overhand work F:..... V:..... T:.....		Item
<u>Schedule of variables (B10)</u>			
Information necessary for elections and completion of those clauses contained in the 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			
10.1 -	Provisional bills of quantities [clause 2.2] The quantities are provisional	No	
10.2 -	Availability of construction documentation [clause 2.3] Construction documentation is complete	Yes	
10.3 -	Previous work - dimensional accuracy [clause 3.1]		
10.4 -	Previous work - defects [clause 3.2]		
10.5 -	Inspection of adjoining properties [clause 3.3]		
10.6 -	Water [clause 7.2]		
	Option A (by contractor)	no	
	Option B (by employer - free of charge)	no	
	Option C (by employer - metered)	yes	
10.7 -	Electricity [clause 7.3]		
	Option A (by contractor)	no	
	Option B (by employer - free of charge)	no	
	Option C (by employer - metered)	yes	
		Carried Forward	R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries			

	Brought Forward	R
10.8 - Telecommunications [clause 7.4]		
Telephone	<i>no</i>	
Facsimile	<i>no</i>	
E-mail	<i>no</i>	
10.9 - Ablution facilities [clause 7.5]		
Option A (by contractor)	<i>yes</i>	
Option B (by employer)	<i>no</i>	
10.10 - Protection of the works [clause 9.1]		
10.11 - Protection/isolation of existing/sectionally occupied works [clause 9.2]		
Protection/isolation is required	Yes	
10.12 - Disturbance [clause 9.5]		
10.13 - Environmental disturbance [clause 9.6]		
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries	Carried Forward	R

Brought Forward

R

SECTION C - SPECIFIC PRELIMINARIES

Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item

70 **C1.0 TEMPORARY PARKHOMES ACCOMODATION**

Provision of Temporary Park Homes for the accomodation of residence occupying current RDP houses for the duration of the construction works and to comply with required manufactures saftey standards and specifications

Fixed: _____ Value related: _____ Time related: _____

Item

71 **C2.0 CONTRACT DRAWINGS**

The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the **works** and the manner in which they are to be executed

Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the **principal agent**

Fixed: _____ Value related: _____ Time related: _____

Item

72 **C3.0 GENERAL PREAMBLES**

For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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

Fixed: _____ Value related: _____ Time related: _____

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

73 **C4.0 TRADE NAMES**

Wherever a trade name for any product has been described in the **bills of quantities / lump sum document**, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the **principal agent** being obtained prior to the closing date for submission of tenders

If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for

Fixed: _____ Value related: _____ Time related: _____

Item

74 **C10.0 HIV/AIDS AWARENESS**

It is required of the **contractor** to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities / lump sum document**. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

The **contractor** must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

C10.1 AWARENESS CHAMPION

Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification

Fixed: _____ Value related: _____ Time related: _____

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

	Brought Forward	R	
C10.2 AWARENESS WORKSHOPS			
<p>Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification</p>			
<p>Fixed: _____ Value related: _____ Time related: _____</p>			
		Item	
C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.			
<p>Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p>			
<p>Fixed: _____ Value related: _____ Time related: _____</p>			
		Item	
C10.4 ACCESS TO CONDOMS			
<p>Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p>			
<p>Fixed: _____ Value related: _____ Time related: _____</p>			
		Item	
C10.5 MONITORING			
<p>Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification</p>			
<p>Fixed: _____ Value related: _____ Time related: _____</p>			
		Item	
		Carried Forward	R
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>			

Brought Forward

R

75 **C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT**

The **contractor** shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)

It is required of the **contractor** to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities / lump sum document**

The **contractor** must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained

Notwithstanding any clause to the contrary regarding Occupational Health and Safety Act CONTRACT DATA the **contractor** shall provide a health and safety plan to the **employer** on the date of taking **possession** of the **site**

Fixed:_____ Value related:_____ Time related:_____

Item

76 **C12.0 SECURITY CLEARANCE BY N/A**

Notwithstanding anything to the contrary contained in clauses C5 to C8 herein the **Contractor** must make allowance for NIA clearance

All personnel, workmen, etc. of the **contractor** and **subcontractors** who will be engaged on **site** will be subject to NIA security clearance before taking **possession** of the **site**

No persons not having NIA security clearance shall be allowed on **site**

All new personnel appointed during the **construction period** will also be subject to the same requirements

Fixed:_____ Value related:_____ Time related:_____

Item

Carried to Final Summary

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Item
No

Quantity Rate Amount

BILL NO. 1

EARTHWORKS (PROVISIONAL)

KEY LOCATIONS

A: Erf 10 stands

DESCRIPTIONS

The contractor is referred to the successive sections and bills for preambles and full descriptions of materials and items not described in this bill which will apply equally to the work in this bill unless otherwise described

PREAMBLES

For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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

SUPPLEMENTARY PREAMBLES

Nature of ground

Use "assumed to be" if no trial holes, soils investigation, etc. have been carried out - discuss with engineer Use "Trial holes indicate that" where the ground has been investigated by means of trial holes

The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "soft rock" or "hard rock"

The nature of the ground is assumed to be gravel, therefore "earth", but possibly interspersed with "soft rock" or "hard rock"

Carried Forward

R

Section No. 2
BUILDING WORKS
 Bill No. 1
 Earthworks

<p style="text-align: center;">Brought Forward</p> <p>The nature of the ground is assumed to be silty clay with loose river boulders varying in size up to approximately 450mm diameter, all of which will be deemed as "earth", but possibly interspersed with "hard rock"</p> <p>A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"</p> <p>Trial holes indicate that the nature of the ground is silty clay to a depth of approximately 500mm with fine to medium loose sandy material below, therefore "earth"</p> <p><u>Subterranean water</u></p> <p>No subterranean water is expected</p> <p><u>Carting away of excavated material</u></p> <p>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</p> <p><u>Filling</u></p> <p>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</p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 BUILDING WORKS Bill No. 1 Earthworks</p>		R	

Brought Forward			R
<u>DEMOLITIONS, ETC.</u>			
<u>REMOVAL OF EXISTING WORK</u>			
<u>Taking down and removing roofs</u>			
1	Removal and Safe Disposal of Asbestos cement roof sheet big six roof structure and disposal of material in accordance with the OHS act 1993,act.no 85 Asbestos regulation of feb 2002		
	A: 580	m2	580
<u>Demolishing and removing</u>			
2	Single storey "RDP" building with flat roof approximatley 58m2 on plan and 2.5m high overall, comprising reinforced concrete surface bed,foundations, external walls and internal walls (asbestos roof removal elsewhere)		
	A: 10	No	10
<u>FOUNDATIONS</u>			
<u>EXCAVATION, FILLING, ETC. OTHER THAN BULK</u>			
<u>Excavation in earth not exceeding 2m deep, for</u>			
3	Raft foundations		
	A: 371	m3	371
4	Thickening under surface beds etc		
	A: 14	m3	14
<u>Extra over bulk excavations in earth for excavation in</u>			
5	Soft rock		
	A: 19	m3	19
6	Hard rock		
	A: 37	m3	37
Carried Forward			R
Section No. 2 BUILDING WORKS Bill No. 1 Earthworks			

	Brought Forward			R
	<u>Extra over all excavations for carting away</u>			
7	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor A: 395	m3	395	
	<u>Risk of collapse of excavations, to</u>			
8	Sides of trench and hole excavations not exceeding 1,5m deep A: 213	m2	213	
	<u>Keeping excavations free of water</u>			
9	Keeping excavations free of water other than subterranean water		Item	
	<u>FILLING, ETC.</u>			
	<u>G6 filling material supplied by the contractor, compacted to 95% Mod AASHTO density at 2% OMC in 150mm layers</u>			
10	Under floors, steps, pavings, etc A: 74	m3	74	
	<u>G6 filling material supplied by the contractor, compacted to 93% Mod AASHTO density at 2% OMC in 150mm layers</u>			
11	Under floors, steps, pavings, etc A: 148	m3	148	
	<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 95% Mod AASHTO density A: 494	m2	494	
	<u>Prescribed density tests on filling</u>			
13	"Modified AASHTO Density" test A: 50	No	50	
	<u>SOIL POISONING</u>			
	Carried Forward			R
	Section No. 2 BUILDING WORKS Bill No. 1 Earthworks			

Brought Forward			R	
<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 A: 494	m2	494	
15	To bottoms and sides of trenches etc A: 180	m2	180	
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>30MPa/19mm concrete, in</u>				
16	Strip footings A: 16	m3	16	
17	Ground beams A: 54	m3	54	
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
<u>Rough formwork to sides, of</u>				
18	Beams A: 170	m2	170	
19	Edges, risers, ends and reveals not exceeding 300mm high or wide A: 284	m	284	
<u>REINFORCEMENT</u>				
<u>Mild steel reinforcement to structural concrete work</u>				
20	8mm Diameter bars A: 1.30	t	1.30	
Carried Forward			R	
Section No. 2 BUILDING WORKS Bill No. 1 Earthworks				

Brought Forward

R

High tensile steel reinforcement to structural concrete work

21 12mm Diameter bars
 A: 1.98

t 1.98

Carried Forward to Summary of Section No. 2

Section No. 2
 BUILDING WORKS
 Bill No. 1
 Earthworks

R

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cost of tests</u></p> <p>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)</p> <p><u>Formwork</u></p> <p>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"</p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 BUILDING WORKS Bill No. 2 Concrete, Formwork and Reinforcement</p>			

Brought Forward							
R							
<u>Equal or Approved items Descriptions</u>							
<p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p>							
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>							
<u>15MPa/19mm concrete, in</u>							
1	1000mm wide Aprons slabs shaped and compacted to a minimum 1-100 fall away from the building A: 32	m3	32				
2	Non-slip wood float finish to top of aprons to falls A: 324	m2	324				
<u>Expansion Joints</u>							
3	10mm Bitumen impregnated softboard expansion joint between concrete aprons and brickwall 100mm high A: 284	m	284				
<u>Rough formwork to sides, of</u>							
4	Edges, risers, ends and reveals not exceeding 300mm high or wide A: 364	m	364				
<u>TEST CUBES</u>							
5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional) A: 50	No	50				
<u>REINFORCED CONCRETE</u>							
Carried Forward							
R							
Section No. 2 BUILDING WORKS Bill No. 2 Concrete, Formwork and Reinforcement							

Brought Forward			R	
<u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25 MPa at 28 days</u>				
6	Surface beds A: 63	m3	63	
<u>CONCRETE SUNDRIES</u>				
<u>Finishing top surfaces of concrete smooth with a steel trowel, to</u>				
7	Surface beds, slabs, etc A: 420	m2	420	
<u>Fabric reinforcement</u>				
8	Type 193 fabric reinforcement in concrete apron slabs. etc with 300mm wide side and end laps A: 420	m2	420	
Carried Forward to Summary of Section No. 2				R
Section No. 2 BUILDING WORKS Bill No. 2 Concrete, Formwork and Reinforcement				

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 3</u></p> <p><u>PRECAST CONCRETE</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p>Prices are to include for building into brick walls as single units or combinations of two or more units and for bedding solid all round in mortar and pointing on both sides with square recessed joints</p> <p>Door frames are to be checked before delivery for structural integrity and quality assurance. Prefabricated material not meeting the required quality standards will be rejected</p> <p><u>PREFABICATED DOOR FRAME</u></p> <p><u>Betecrete polycrrete door frame fitted to the centre of brickwalls</u></p>			
1	<p>Frame for door 813 x 2032mm high A: 50</p>	No 50		
	Carried Forward		R	
	<p>Section No. 2 BUILDING WORKS Bill No. 3 Precast concrete</p>			

Brought Forward				R
<u>PRECAST CONCRETE DOOR SILLS, ETC.</u>				
<u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u>				
2	Betecrete polycrete door sills weathered on top for a width of 110mm along front edge bedded to external door openings A: 16	m	16	
<u>SUNDRIES</u>				
3	Standard concrete gulley including uPVC underground head and 110mm grate A: 10	No	10	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
BUILDING WORKS				
Bill No. 3				
Precast concrete				

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 4</u></p> <p><u>MASONRY</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p><u>Bagged and sealed walls</u></p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats stable bitumen emulsion waterproofing coating</p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 BUILDING WORKS Bill No. 4 Masonry (local package.1)</p>			

Brought Forward			R
<u>BRICKWORK IN SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks (7Mpa compressive strength) bricks in class II mortar, in</u>			
1	Half brick walls A: 370	m2	370
2	One brick walls A: 669	m2	669
3	One brick walls in beamfilling A: 97	m2	97
<u>Brickwork reinforcement</u>			
4	75mm Wide reinforcement built in horizontally A: 1450	m	1 450
5	150mm Wide reinforcement built in horizontally A: 2940	m	2 940
<u>Galvanised wire ties etc</u>			
6	4mm Diameter roof tie 2m girth bent double, with one end built into brickwork and other end fixed to timber A: 520	No	520
<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>			
7	105 x 75mm Lintels in lengths not exceeding 3m A: 300	m	300
<u>FIBRE-CEMENT WINDOW SILLS</u>			
<u>Natural grey sills in single lengths bedded in class II mortar including metal fixing lugs etc</u>			
8	500 x 180mm Wide sills set sloping and slightly projecting A: 71	m	71
<u>GRANITE</u>			
Carried Forward			R
Section No. 2 BUILDING WORKS Bill No. 4 Masonry (local package.1)			

Brought Forward					
				R	
<u>Granite with polished finish</u>					
9	30mm thick x 600mm wide black engineered granite countertop with square edges on steel support heavy duty wall brackets fixed to partitions, brick walls or concrete including cutting out for sink opening (sink & steel wall bracket measured elsewhere)				
	A: 12	m	12		
10	Extra over for cutting out sink opening				
	A: 10	No	10		
Carried Forward to Summary of Section No. 2					
Section No. 2					
BUILDING WORKS					
Bill No. 4					
Masonry (local package.1)					
				R	

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 5</u></p> <p><u>WATERPROOFING</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Waterproofing</u></p> <p>Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p> <p><u>DAMPPROOFING OF WALLS AND FLOORS</u></p>			
<p>Section No. 2 BUILDING WORKS Bill No. 5 Waterproofing</p>	<p>Carried Forward</p>	<p>R</p>	

	Brought Forward			R
	<u>One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)</u>			
1	In walls A: 62	m2	62	
2	In walls vertically at reveals A: 56	m2	56	
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer 160 micron green polyethylene waterproof sheeting sealed at laps with PVC self-adhesive tape</u>			
3	Under surface beds A: 420	m2	420	
	<u>SEALING STRIPS, JOINT SEALANTS, ETC.</u>			
	<u>Clear silicone sealant</u>			
4	10 x 10 mm in joints between frames and walls A: 255	m	255	
5	Between plastered walls and sanitary fittings A: 50	m	50	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	BUILDING WORKS			
	Bill No. 5			
	Waterproofing			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>ROOF COVERINGS, ETC.</u>			
	<u>KEY LOCATIONS</u>			
	A: Erf 10 stands			
	<u>PREAMBLES</u>			
	For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Equal or Approved items Descriptions</u>			
	Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm interlocking IBR profile steel sheeting in single lengths and accessories, with approved pre painted finish on one side, fixed to and including timber purlin</u>			
1	Roof covering with pitches not exceeding 25 degrees to timber purlins			
	A: 680	m2		680
2	Ridge cappings			
	A: 20	m		20
3	Hip cappings			
	A: 211	m		211
	Carried Forward to Summary of Section No. 2			
	Section No. 2 BUILDING WORKS Bill No. 6 Roof Coverings, etc		R	

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 7</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing</u></p> <p>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</p> <p>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</p> <p><u>Joinery</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, rails, etc</p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>ROOFS, ETC.</u></p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 BUILDING WORKS Bill No. 7 Carpentry and Joinery (local package.2- doors&kitchen)</p>			

Brought Forward				R
<u>Sawn softwood grade 6</u>				
1	38 x 114mm Wall plates bolted A: 304	m	304	
2	Extra over for 50 x 76mm tilting fillets at eaves A: 324	m	324	
<u>Sundries</u>				
3	Two coats creosote on sawn timbers A: 83	m2	83	
<u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
References given in descriptions refer to the respective types of trusses detailed on the architect's/engineer's drawings annexed to these bills of quantities (accompanying these bills of quantities for tender purposes)				
Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences				
<u>Sawn softwood</u>				
4	Prefabricated hip roof construction of hip roof trusses in step down system including hip ends size 9.1 x 7.1m x 1.25mm high all round overall consisting of rafters, tie beams, jack rafters, bracing with fixing accessories by a certified roofing specialist in accordance with the SANS with valid certificate of competence to receive roof covering (wall plates measured elsewhere) A: 10.00		Item	
<u>Fibre-cement fascias and barge boards</u>				
5	12 x 225mm Grooved fascias and barge boards, including galvanised steel H-profile joiners A: 324	m	324	
Carried Forward				R
Section No. 2 BUILDING WORKS Bill No. 7 Carpentry and Joinery (local package.2- doors&kitchen)				

Brought Forward				R
<u>DOORS, ETC.</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Medium duty exterior hardwood door hung to polycrrete door frames</u>				
6	PD8 Plypanel exterior two panel hardwood door 813 x 2032mm high A: 10	No	10	
7	PD1 FLB open back ply exterior panel hardwood door 813 x 2032mm high A: 10	No	10	
<u>Sapele interior light hollowcore flushdoor (Code:91104) manufactured in accordance with SANS 545:1989 hung to polycrrete door frames</u>				
8	40mm Door 813 x 2032mm high A: 30	No	30	
<u>CUPBOARDS TO KITCHENS, BEDROOMS, ETC.</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>General</u>				
<p>The following cupboard fittings have been given as complete units i.e. the components of the units have not been given separately. Descriptions of such units shall, therefore, be deemed to include all components, assembling, housing, notching, glueing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes, etc</p> <p>Prices are to include for all necessary filler pieces against walls etc</p>				
Carried Forward				R
Section No. 2 BUILDING WORKS Bill No. 7 Carpentry and Joinery (local package.2- doors&kitchen)				

	Brought Forward				R
9	Floor cupboard type White melamine or similar approved 1200 x 560 x 760mm high with top, sides, bottom, division, shelves, back and double hinged doors, dividing framework fitted in position and complete (handles measured elsewhere)				
	A: 10	No	10		
10	Sink cupboard type 900 x 560 x 760mm high with sides, bottom, divisions, shelf, back and double hinged doors (sink elsewhere)				
	A: 10	No	10		
Carried Forward to Summary of Section No. 2					R
Section No. 2					
BUILDING WORKS					
Bill No. 7					
Carpentry and Joinery (local package.2- doors&kitchen)					

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 8</u></p> <p><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing</u></p> <p>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</p> <p><u>Ceilings</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>CEILING TIMBERS, BEADS, INSULATION, ETC.</u></p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 BUILDING WORKS Bill No. 8 Ceilings, Partitions and Access Flooring (Local package.3)</p>			

Brought Forward			R
<u>Insulation</u>			
1	135mm Insulation in blanket form lapped not less than 50mm along all edges and laid on top of brandering between roof timbers etc A: 420	m2	420
<u>NAILED-UP CEILINGS</u>			
<u>6mm "Cladit" fibre cement plain ceiling board with H-profile galvanised steel pre painted jointing strips</u>			
2	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres and cross brandering at 450mm centres A: 420	m2	420
3	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around A: 10	No	10
<u>Standard nutec cornices</u>			
4	75 mm Coved cornices A: 510	m	510
Carried Forward to Summary of Section No. 2			R
Section No. 2 BUILDING WORKS Bill No. 8 Ceilings, Partitions and Access Flooring (Local package.3)			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 9</u></p> <p><u>IRONMONGERY</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>Finishes to ironmongery</u></p> <p>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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p>			
	Carried Forward		R	
	Section No. 2 BUILDING WORKS Bill No. 9 Ironmongery (Local package.4)			

Brought Forward							
						R	
<u>Equal or Approved items Descriptions</u>							
<p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p>							
<u>LOCKS</u>							
1	Ironbrass plated padlock fixed to security gates A: 20	No	20				
<u>Manufactured by "Solid" or similar approved</u>							
2	Two-lever lockset LA953/2L (SKL) with chrome plated finish including handles with striking plate fixed to concrete frames A: 30	No	30				
3	Three-lever lockset LA 953/3L with chrome plated finish including handles with striking plate fixed to concrete frames A: 20	No	20				
<u>SUNDRIES</u>							
4	Aluminium door code: (AL8730AS) stoper with anodised silver finish plugged. A: 20	No	20				
5	Betcrete polycrrete door sill A: 20	No	20				
<u>BATHROOM FITTINGS</u>							
6	CP Towel ring plugged A: 10	No	10				
Carried Forward						R	
Section No. 2 BUILDING WORKS Bill No. 9 Ironmongery (Local package.4)							

		Brought Forward		R	
7	CP paper ring holder plugged A: 10	No	10		
<u>HANDLES</u>					
<u>Cupboard handles</u>					
8	96mm curved line black nickel "viking" cupboard handles A: 40	No	40		
<u>PELMETS AND CURTAIN TRACKS</u>					
<u>Curtain Tracks</u>					
9	Single curtain tracks for soffit fixing including 10 roller gliders per metre, stops, two end caps, brackets, etc plugged into walls above windows A: 80	m	80		
Carried Forward to Summary of Section No. 2				R	
Section No. 2					
BUILDING WORKS					
Bill No. 9					
Ironmongery (Local package.4)					

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 10</u></p> <p><u>METALWORK</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions of bolts, anchors, etc</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>GALVANISED STEEL GATES SCREENS, ETC.</u></p> <p><u>Econo security gate</u></p> <p>1 Single security gate 980 x 2032mm high approved powder coated mild steel square tubing frame complete with hinges and rounded welded bar inserts with shoot bolt mechanism to receive padlocks (padlock measured elsewhere)</p> <p style="text-align: center;">A: 20</p>	No	20	
	Carried Forward		R	
	<p>Section No. 2 BUILDING WORKS Bill No. 10 Metalwork (Local Package.5)</p>			

Brought Forward

R

GALVANISED STEEL WINDOWS, DOORS, ETC.

Standard residential windows

2	Window type NCTX7S 1022 x 949mm high A: 10	No	10
3	Window type NCTX7S5 1511 x 949mm high A: 10	No	10
4	Window type TD151 1511 x 1264mm high A: 30	No	30

Carried Forward to Summary of Section No. 2

R

Section No. 2
 BUILDING WORKS
 Bill No. 10
 Metalwork (Local Package.5)

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 11</u></p> <p><u>PLASTERING</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>GRANOLITHIC</u></p> <p><u>Method</u></p> <p>The method to be used shall be either the monolithic method or the bonded method</p> <p><u>Preparation</u></p> <p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic</p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 BUILDING WORKS Bill No. 11 Plastering (Local Package.6)</p>			

Brought Forward				R
<u>Mix</u>				
Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic				
<u>Panels</u>				
Granolithic shall be laid in panels not exceeding 14m ² for monolithic finishes, not exceeding 9,5m ² for bonded finishes and not exceeding 6m ² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width				
<u>Equal or Approved items Descriptions</u>				
Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required				
<u>GRANOLITHIC</u>				
<u>Untinted granolithic, on concrete</u>				
1	30mm Thick on floors and landings A: 420	m2	420	
<u>INTERNAL PLASTER</u>				
<u>13mm (1:5) Cement plaster steel trowelled on brickwork</u>				
2	On walls A: 1285	m2	1 285	
3	On narrow widths A: 55	m2	55	
<u>EXTERNAL PLASTER</u>				
Carried Forward				R
Section No. 2 BUILDING WORKS Bill No. 11 Plastering (Local Package.6)				

Brought Forward				R	
<u>13mm (1:5) Cement plaster steel trowelled on brickwork</u>					
4	On walls A: 710	m2	710		
5	On narrow widths A: 39	m2	39		
6	On sides and front top edge of surrounds 220mm girth A: 195	m	195		
Carried Forward to Summary of Section No. 2				R	
Section No. 2					
BUILDING WORKS					
Bill No. 11					
Plastering (Local Package.6)					

Item No		Quantity	Rate	Amount
	<u>BILL NO. 12</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>KEY LOCATIONS</u>			
	A: Erf 10 stands			
	<u>PREAMBLES</u>			
	For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Equal or Approved items Descriptions</u>			
	Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required			
	<u>RAINWATER DISPOSAL</u>			
	<u>0,6mm Galvanised sheet steel gutters and rainwater pipes</u>			
1	102 x 125mm Roof gutters with beaded front edge A: 336	m	336	
2	100 x 100mm Rainwater pipes with crimp shoe A: 128	m	128	
3	Extra over gutter for angle A: 40	No	40	
4	Extra over gutter for outlet A: 40	No	40	
	Carried Forward		R	
	Section No. 2 BUILDING WORKS Bill No. 12 Plumbing & Drainage (Local Package.7)			

Brought Forward			R
5	Extra over rainwater pipe for plinth bend A: 40	No 40	
6	Extra over rainwater pipe for eaves offset A: 40	No 40	
<u>Stainless steel</u>			
7	750 x 400mm Steel sink drop on sink with single end bowl on galvanised steel brackets A: 10	No 10	
<u>"Thandi"</u>			
8	Courier Basin lavatory basin on universal floor mounted pedestal A: 10	No 10	
9	Low Level "WC suite in a box" comprising pan with double flap plastic seat and matching 9 litre plastic cistern and flushing mechanism A: 10	No 10	
10	1700 x 750mm "Thandi" bath with waste outlet, overflow grating with coupling and pair of handles, bedded in position A: 10	No 10	
<u>"Vaal"</u>			
<u>WASTE UNIONS, ETC.</u>			
<u>"Cobra Watertech"</u>			
11	32mm Basin waste union plug and chain for standard size basin A: 10	No 10	
12	32mm Bath waste union plug and chain for standard size baths A: 10	No 10	
13	40mm sink waste union A: 10	No 10	
Carried Forward			R
Section No. 2 BUILDING WORKS Bill No. 12 Plumbing & Drainage (Local Package.7)			

	Brought Forward			R
	<u>TRAPS, ETC.</u>			
	<u>"PVC"</u>			
14	38 x 40mm plain bath trap A: 10	No	10	
	<u>"Rubber"</u>			
15	32 x 50mm single bowl sink and basin reseal "P" or "S" trap combination A: 20	No	20	
	<u>TAPS, VALVES, ETC.</u>			
16	15mm CP bath pillar taps A: 20	No	20	
17	15mm CP basin pillar taps A: 10	No	10	
18	15mm CP Sink pillar taps A: 10	No	10	
19	15mm CP Angle Valve A: 20	No	20	
	<u>SANITARY PLUMBING</u>			
	<u>uPVC soil and vent pipes</u>			
20	110mm Pipes A: 10	m	10	
21	50mm Pipes A: 90	m	90	
22	50mm Pipes chased into brickwork A: 40	m	40	
	<u>Extra over uPVC soil and vent pipes for fittings</u>			
23	110mm Pan connector A: 10	No	10	
	Carried Forward			R
	Section No. 2 BUILDING WORKS Bill No. 12 Plumbing & Drainage (Local Package.7)			

**INFILL HOUSING DIEPKLOOF X 10 UNITS
BILLS OF QUANTITIES
SIOC CDT
NC/001/2020/B**

		Brought Forward		R	
24	110mm Air vent valve A: 10	No	10		
25	110mm Access Bend A: 10	No	10		
26	50mm Bend A: 30	No	30		
27	50mm Junction A: 40	No	40		
28	50mm Access bend A: 20	No	20		
<u>Testing</u>					
29	Testing waste pipe system		Item		
<u>WATER SUPPLIES</u>					
<u>Class 0 copper pipes with capillary couplings</u>					
30	15mm Pipes A: 110	m	110		
<u>Extra over Class 0 copper pipes for capillary fittings</u>					
31	15mm Fittings A: 180	No	180		
<u>Flexible service pipes</u>					
32	15mm Service pipe 350mm girth A: 40	No	40		
<u>Municipal connection</u>					
33	Provide the sum of R 2000,00 (Two Thousand Rands) for municipal connection		Item		20 000 00
34	Profit		Item		
		Carried Forward		R	
Section No. 2 BUILDING WORKS Bill No. 12 Plumbing & Drainage (Local Package.7)					

	Brought Forward		R	
	<u>Testing</u>			
35	Testing water pipe system	Item		
	<u>AS-BUILT DRAWINGS</u>			
36	Provision of as-built drawings	Item		
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2			
	BUILDING WORKS			
	Bill No. 12			
	Plumbing & Drainage (Local Package.7)			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 13</u></p> <p><u>GLAZING</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>GLAZING TO STEEL WITH PUTTY</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Float glass</u></p> <p>The term "float glass" is used for monolithic annealed glass</p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>GLAZING TO STEEL WITH PUTTY</u></p> <p><u>6mm Clear toughened safety glass</u></p>			
1	<p>Panes exceeding 0,5m2 and not exceeding 2m2 in area A: 71</p>	m2	71	
	<p><u>4mm Obscure glass</u></p>			
2	<p>Panes exceeding 0,5 and not exceeding 2m2 in area A: 10</p>	m2	10	
	Carried Forward		R	
	<p>Section No. 2 BUILDING WORKS Bill No. 13 Glazing (Local Package.8)</p>			

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 14</u></p> <p><u>PAINTWORK</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>ON INTERNAL FLOATED PLASTER SURFACES</u></p> <p><u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</u></p>			
1	<p>Walls A: 1117</p>	m2	1 117	
	<p><u>One coat alkali resistant primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint</u></p>			
2	<p>Walls A: 201</p>	m2	201	
	<p><u>ON EXTERNAL FLOATED PLASTER SURFACES</u></p>			
	Carried Forward			R
	<p>Section No. 2 BUILDING WORKS Bill No. 14 Painting (Local Package.9)</p>			

Brought Forward			R	
<u>One coat alkali resistant primer and two coats PVA emulsion paint for exterior use</u>				
3	Walls A: 703	m2	703	
<u>ON FIBRE-CEMENT BOARD SURFACES</u>				
<u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</u>				
4	Ceilings and cornices A: 420	m2	420	
<u>ON FIBRE-CEMENT BOARD SURFACES</u>				
<u>One coat alkali resistant primer and two coats PVA emulsion paint for exterior use</u>				
5	Fascias and barge boards, including priming metal jointing strips A: 149	m2	149	
<u>ON METAL SURFACES</u>				
<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>				
6	Windows A: 86	m2	86	
7	Eaves gutters A: 111	m2	111	
8	Rainwater downpipes A: 52	m2	52	
<u>ON WOOD SURFACES</u>				
<u>Two coats woodgard interior/exterior Timbavarnish alkyde vanish to exterior wood vanish</u>				
9	Doors A: 179	m2	179	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
BUILDING WORKS				
Bill No. 14				
Painting (Local Package.9)				

Bill No		Page No		Amount
	Section No. 2			
	BUILDING WORKS			
	<u>SECTION SUMMARY - BUILDING WORKS</u>			
1	Earthworks	-24-		
2	Concrete, Formwork and Reinforcement	-27-		
3	Precast concrete	-29-		
4	Masonry (local package.1)	-32-		
5	Waterproofing	-34-		
6	Roof Coverings, etc	-35-		
7	Carpentry and Joinery (local package.2- doors&kitchen)	-39-		
8	Ceilings, Partitions and Access Flooring (Local package.3)	-41-		
9	Ironmongery (Local package.4)	-44-		
10	Metalwork (Local Package.5)	-46-		
11	Plastering (Local Package.6)	-49-		
12	Plumbing & Drainage (Local Package.7)	-54-		
13	Glazing (Local Package.8)	-56-		
14	Painting (Local Package.9)	-58-		
	Carried to Final Summary		R	
	Section No. 2			
	BUILDING WORKS			

Item No	Quantity	Rate	Amount
<p><u>EXTERNAL WORK</u></p> <p><u>BILL NO .1</u></p> <p><u>EXTERNAL WORKS,(ALL TRADES)</u> <u>(PROVISIONAL)</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 1600 B: Erf 1604 C: Erf 1605 D: Erf 1472 E: Erf 1473 F: Erf 1474 G: Erf 1597 H: Erf 1596 I: Erf 1599 J: Erf 1598</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor including SANS 1200 for preambles on workmanship and materials and 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</p> <p><u>DESCRIPTIONS</u></p> <p>The contractor is referred to the successive sections and bills for preambles and full descriptions of materials and items not described in this bill which will apply equally to the work in this bill unless otherwise described</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p>			
Section No. 3 EXTERNAL WORKS Bill No. 1 External Works (Local packages.10)	Carried Forward	R	

Brought Forward				R
<u>Equal or Approved items Descriptions</u>				
<p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p>				
<u>Cable Trenches</u>				
<p>Rates for cable trenches to make allowance for risk of collapse of excavations and keeping excavations free from water</p>				
<u>Civil Engineering Works SANS1200</u>				
<p>The rates of the civil engineering works in this section must take into account the South African Bureau of Standards Specifications for Civil Engineering Works as published and approved by the council of the South African Bureau of Standards.</p>				
<u>Cables</u>				
<p>Rates for cables shall make allowance for snaking</p>				
<u>Cable terminations and prescribed running joints</u>				
<p>Rates to make allowance for glands and making off</p>				
<u>High density polyethylene (HDPE) pipes and fittings</u>				
<p>Pipes shall be type IV and of the class specified with "Plasson" or "Alprene" compression fittings</p>				
<u>DEMOLITIONS, ETC.</u>				
<u>Taking down and removing</u>				
1	Existing steel diamond mesh security fence including gates with steel posts and droppers and 45 degree barbed wire overhang approximatley 1.2m high overall and grubbing out bases and remove from site	m	790	
Carried Forward				R
<p>Section No. 3 EXTERNAL WORKS Bill No. 1 External Works (Local packages.10)</p>				

Brought Forward					
				R	
<u>SITE CLEARANCE, ETC.</u>					
<u>Site clearance</u>					
2	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	2 430		
<u>FENCING</u>					
<u>Galvanised diamond mesh fence with steel standards, droppers and steel pipe posts, stays, gate, etc including galvanised steel bolts, straining eye bolts, etc, site clearance and preparation of ground</u>					
3	Fence 1.8m high of 1.8mm gauge wire thick of 64 x 64 aperture including type "i" profile type standards at not exceeding 3000mm centres with type "T" profile droppers at not exceeding 2000mm centres in between	m	790		
4	100mm diameter inclined stay 2.4m long, including concrete base	No	80		
5	100mm diameter corner post 2.4m long, including concrete base	No	40		
6	Double gate of 3.0 x 1.8m high of 76mm diameter framing "diamond mesh" type including hinges, spring latch with catch, etc	No	10		
<u>CIVIL ENGINEERING WORKS: SANS 1200</u>					
<u>EARTHWORKS: D#</u>					
<u>8.3.4 Importing of Material</u>					
7	a) Extra over for importation of material from commercial sources or from borrow pits of G6 material in forming and building up two platforms of 300mm thick and compacted at layers not exceeding 150mm thick to 95% Mod ASSHTO as specified by the engineer.	m3	158		
<u>EARTHWORKS (PIPES TRENCHES): DB</u>					
<u>Excavation: DB# 8.3.2</u>					
				R	
		Carried Forward			
Section No. 3 EXTERNAL WORKS Bill No. 1 External Works (Local packages.10)					

	Brought Forward			R	
	<u>Excavate in all materials for trenches backfill, compact and disposal of surplus material</u>				
	<u>a) Over 0mm and up to and including 125mm diameter for total trench depth (Water Pipelines):</u>				
8	i) Exceeding 0,0 m but not exceeding 1,0 m	m	310		
	<u>a) Over 0mm and up to and including 125mm diameter for total trench depth (Sewer Pipelines):</u>				
9	i) Exceeding 0,0 m but not exceeding 1,0 m	m	158		
	<u>Extra over for: DB # 8.3.2b</u>				
10	1) Intermediate Excavations	m3	16		
11	2) Hard Rock Excavations	m3	32		
12	c) Excavate and dispose of unsuitable material from trench bottom (Provisional)	m3	66		
	<u>Existing Services that Intersect or Adjoin a Pipe Trench DB # 8.3.5</u>				
13	a) Services that intersect a trench	No	10		
	<u>MEDIUM-PRESSURE PIPELINES: L#</u>				
	<u>Supply, Lay, and Bed Pipes Complete with Couplings: L# 8.2.1</u>				
14	20mm diameter HDPE pressure pipes	m	310		
	<u>Extra over 8.2.1 for the Supplying, Fixing, and Bedding of Valves L# 8.2.3</u>				
15	20mm Stop Ball Valves	No	10		
	<u>Extra over 8.2.1 for the Cutting of the Pipe and the Supplying and Fixing of the Extra Coupling: L# 8.2.4</u>				
16	Med pressure pipelines e.o. for cutting pipe & supply & fix extra couplings	No	10		
	Carried Forward			R	
	Section No. 3 EXTERNAL WORKS Bill No. 1 External Works (Local packages.10)				

	Brought Forward			R
	<u>Anchor/Thrust Blocks and Pedestals: L# 8.2.11</u>			
17	20 MPa/19mm Concrete.	m3	10	
	<u>Recover Old Pipeline L# 8.2.8</u>			
18	Existing Pipelines	m	210	
	<u>BEDDING (PIPES): LB#</u>			
	<u>Provision of Bedding from Trench Excavation: LB # 8.2.1</u>			
19	b) Selected fill material.	m3	31	
	<u>SEWER: LD#</u>			
	<u>Supply, lay, joint and bed non-pressure PVC pipes and test pipeline: LD # 8.2.1</u>			
20	1) 110 mm diameter PVC pipe	m	160	
	<u>Extra-Over item 8.2.1 for specials</u>			
21	1) 110 x 45 Rodding Eye	No	10	
	<u>ERF CONNECTION WATER: LF#</u>			
22	Provide erf connection Complete: LF # 8.2.1	No	10	
	Carried to Final Summary			R
	Section No. 3			
	EXTERNAL WORKS			
	Bill No. 1			
	External Works (Local packages.10)			

Item No		Quantity	Rate	Amount
	<p><u>PROVISIONAL SUMS</u></p> <p><u>BILL NO .1</u></p> <p><u>General</u></p> <p>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</p> <p>Prime cost amounts and provisional sums are net. Prime cost amounts include for delivery to site of all articles concerned</p> <p>Provisional sums are for material and equipment supplied and installed complete by firms of specialists</p> <p><u>Profit</u></p> <p>Where stated, the contractor may allow for profit if required</p> <p><u>General attendance on nominated/selected subcontractors</u></p> <p>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:</p> <ol style="list-style-type: none"> 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 <p><u>Builder's work</u></p> <p>Builder's work in connection with specialist services is given elsewhere in these bills of quantities</p>			
	Carried Forward		R	
	<p>Section No. 4 PROVISIONAL SUMS Bill No. 1 Provisional Sums</p>			

		R	
Brought Forward			
<u>Equal or Approved items Descriptions</u>			
Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required			
<u>BUDGETARY ALLOWANCES</u>			
<u>Landscaping (Local Package Content.10)</u>			
1 Provide the sum of R 1 600,00 (One Thousand Six Hundred Rands) for landscaping	Item	16 000	00
2 Profit	Item		
3 Attendance	Item		
<u>Community Liaison Officer</u>			
4 Provide the sum for Community Liaison Officer	Item	9 400	00
5 Profit	Item		
6 Attendance	Item		
<u>NHBRC Enrolments</u>			
7 Provide the sum of R 4 500.00 (Four Thousand Five Hundred Rands) for phase NHBRC enrolment	Item	45 000	00
8 Profit	Item		
9 Attendance	Item		
Carried to Final Summary			
Section No. 4 PROVISIONAL SUMS Bill No. 1 Provisional Sums		R	

FINAL SUMMARY

Section No		Page No	Amount
1	PRELIMINARIES AND GENERAL	-18-	
2	BUILDING WORKS	-59-	
3	EXTERNAL WORKS	-64-	
4	PROVISIONAL SUMS	-66-	
	Electrical Engineering Installation Schedule of Quantities Total Brought Forward ("Annexure A")	Item	
	Sub - Total		R
	Carried to Master Bills of Quantity Summary		R

ANNEXURE – A
ELECTRICAL ENGINEERING INSTALLATIONS

CLIENT SIOC COMMUNITY DEVELOPMENT TRUST
PROJECT LOW COST HOUSING UNIT - GAMAGARA LOCAL MUNICIPALITY
CONTRACT ELECTRICAL INSTALLATION
BILL NO. 2 DIEPTLOOF 10 UNITS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	R	c
2	<u>ELECTRICAL INSTALLATION</u>					
2.1	<u>DISTRIBUTION BOARDS -</u>					
2.1.1	Reseced 12 mod distribution board					
	Material	each	10			
	Labour	each	10			
2.1.2	<u>EARTH LEAKAGE UNITS (SABS) APPROVED</u>					
	25-63A - 1 POLE + N					
	Material	each	10			
	Labour	each	10			
2.1.3	<u>CIRCUIT BREAKERS (SABS) APPROVED - MCCB</u>					
2.1.3.1	50A, 3kA single pole circuit braker					
	Material	each	10			
	Labour	each	10			
2.1.3.2	40A, 3kA single pole circuit braker					
	Material	each	10			
	Labour	each	10			
2.1.3.4	20A, 3kA single pole circuit braker					
	Material	each	20			
	Labour	each	20			
2.1.3.5	10A, 3kA single pole circuit braker					
	Material	each	10			
	Labour	each	10			
	<u>SURGE ARRESTERS (SABS) APPROVED FOR LOW VOLTAGE POWER SYSTEMS</u>					
	Class 1 - 25kA on 10/350µs impulse - 230/400V					
	Material	each	20			
	Labour	each	20			
Sub-Total for Bill No. 1(Carried to the next page)						
AFN ELECTRICALL SERVICES CC : SCHEDULES OF QUANTITIES						

CLIENT SIOC COMMUNITY DEVELOPMENT TRUST
PROJECT LOW COST HOUSING UNIT - GAMAGARA LOCAL MUNICIPALITY
CONTRACT ELECTRICAL INSTALLATION
BILL NO. 2 DIEPTLOOF 10 UNITS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	R	c
	<i>Brought from previous the page</i>					
2.2	Conduit, Wire ways & Acc Supply and install SABS approved PVC Conduit per meter					
2.2.1	20mm diameter chased into brick walls/ concrete slabs					
	Material	m	500			
	Labour	m	500			
2.2.2	20mm diameter in roof spaces					
	Material	m	500			
	Labour	m	500			
Sub-Total for Bill No. 1(Carried to the next page)						
AFN ELECTRICALL SERVICES CC : SCHEDULES OF QUANTITIES						

CLIENT SIOC COMMUNITY DEVELOPMENT TRUST
PROJECT LOW COST HOUSING UNIT - GAMAGARA LOCAL MUNICIPALITY
CONTRACT ELECTRICAL INSTALLATION
BILL NO. 2 DIEPTLOOF 10 UNITS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	R c
	<i>Brought from previous the page</i>				
2.3	<u>Steel outlet boxes 1, 2 & 3 or 4 way</u>				
2.3.1	50mm round				
	Material	No	70		
	Labour	No	70		
2.4	<u>Basal Conduit Outlet boxes</u>				
	NOTE: Outlets are measured to size only and NOT to the number of ways				
2.4.1	100mm x 50mm x 50mm deep including blank covers				
	Material	No	50		
	Labour	No	50		
2.4.2	100mm x 100mm x 50mm deep				
	Material	No	60		
	Labour	No	60		
2.5	<u>Switch Socket Outlets and Isolators</u>				
2.5.1	16A, 3-pin double SSO flush mounted in 100mm x 100mm x 50mm deep outlet box				
	Material	No	50		
	Labour	No	50		
2.5.2	60A DP Isolator mounted in 100mm x 100 mm x 50 mm deep outlet box				
	Material	No	10		
	Labour	No	10		
Sub-Total for Bill No. 1(Carried to the next page)					
AFN ELECTRICALL SERVICES CC : SCHEDULES OF QUANTITIES					

CLIENT SIOC COMMUNITY DEVELOPMENT TRUST
 PROJECT LOW COST HOUSING UNIT - GAMAGARA LOCAL MUNICIPALITY
 CONTRACT ELECTRICAL INSTALLATION
 BILL NO. 2 DIEPTLOOF 10 UNITS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	R	c
2.6	<u>Brought from previous the page</u> <u>Light Switches and Isolators</u>					
2.6.1	16A, 1 lever, 1-way light switch mounted in 100mm x 50mm x 50mm deep outlet box					
	Material	No	20			
	Labour	No	20			
2.6.2	As 1.6.1 but 2 liver					
	Material	No	30			
	Labour	No	30			
2.7	<u>PVC Insulated Copper Wiring</u>					
2.7.1	2.5mm ² for SSO outlets and A/C outlets					
	Material	m	1000			
	Labour	m	1000			
2.7.2	1,5mm ² for lighting					
	Material	m	2000			
	Labour	m	2000			
2.8	<u>Supply, deliver and install in conduits</u> <u>the following bare copper earth wire</u>					
2.8.1	1,5mm ²					
	Material	m	1000			
	Labour	m	1000			
Sub-Total for Bill No. 1(Carried to the next page)						
AFN ELECTRICALL SERVICES CC : SCHEDULES OF QUANTITIES						

CLIENT SIOC COMMUNITY DEVELOPMENT TRUST
PROJECT LOW COST HOUSING UNIT - GAMAGARA LOCAL MUNICIPALITY
CONTRACT ELECTRICAL INSTALLATION
BILL NO. 2 DIEPTLOOF 10 UNITS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	R	c
	<i>Brought from previous the page</i>					
2.90	<u>Luminaires</u>					
2.9.1	Black bulkhead luminaire - IP65 - 266mm - round complete with 2 x 18W Compact Fluorescent Lamps (SABS approved)					
	Supply	No	80			
	Labour	No	80			
2.10	<u>EXCAVATIONS</u>					
	Excavate cable trench 750mm deep by 350mm wide inclusive of backfilling and compacting					
2.10.1	Soft soil	m3	39.50			
2.10.2	Soft rock	m3	19.60			
2.10.3	Hard rock	m3	19.60			
2.11	<u>Supply, delivery and installation of the following copper cables laid trenches and drawn through sleeves</u>					
2.11.1	10mm ² 3-core PVC SWA PVC					
	Material	m	300			
	Labour	m	300			
2.12	Application for the relocation of the existing point of supply, to the temporary accommodation and back to the new structure. (PROVISSIONAL SUM)	Sum	10		R	50 000.00
2.13	Solar Geyser					
	Material		10			
	Labour		10			
2.14	<u>Test and Commission the complete installation (Temporary and permanents houses)</u>	Sum	10			
Sub-Total for Bill No. 1(Carried to the next page)						
AFN ELECTRICALL SERVICES CC : SCHEDULES OF QUANTITIES						

SECTION B

INFILL HOUSING DIBENG X 10 UNITS

Item No	Quantity	Amount
<p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></p> <p><u>Disclaimer</u></p> <p>The JBCC Series 2000 Principal Building Agreement (code: 2101 July 2007 edition 5.0 reprint 1) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The JBCC Principal Building Agreement Contract Data EC and the JBCC Principal Building Agreement Contract Data CE form an integral part of this agreement</p> <p>The ASAQS Preliminaries (November 2007 edition) published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities</p> <p>Contractors are referred to the abovementioned documents for the full intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this agreement such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the abovementioned documents</p> <p>Where any item is not relevant to this specific agreement such item is marked N/A, signifying "not applicable"</p> <p><u>PREAMBLES FOR TRADES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p>Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles</p>		
<p>Carried Forward</p>	R	
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>		

	Brought Forward	R
<p>The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles</p>		
<p><u>PRICING OF PRELIMINARIES</u></p>		
<p>Should the contractor select Option A in terms of subclause 3.2.1 in the Contract Data - Contractor to Employer (CE) for the purpose of adjustment of these preliminaries, the amount entered into the amount column in these preliminaries is to be divided into one or more of the three categories provided namely Fixed (F), Value Related (V) and Time Related (T)</p>		
<p><u>SECTION A - PRINCIPAL BUILDING AGREEMENT</u></p>		
<p><u>Definitions (A1)</u></p>		
1	<p>Clause 1.0 - Definitions and interpretation</p> <p>The measuring system used for the preparation of the bills of quantities is the Standard System of Measuring Building Work (sixth edition, revised 1999) published by the Association of South African Quantity Surveyors [1.1]</p> <p>F:..... V:..... T:.....</p>	Item
<p><u>Objective and preparations (A2 - A14)</u></p>		
2	<p>Clause 2.0 - Offer acceptance and performance obligations</p> <p>F:..... V:..... T:.....</p>	Item
3	<p>Clause 3.0 - Documents</p> <p>Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT) [3.5]</p> <p>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 [3.9]</p> <p>F:..... V:..... T:.....</p>	Item
		Carried Forward
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>		R

		Brought Forward	R
4	Clause 4.0 - Design responsibility F:..... V:..... T:.....		Item
5	Clause 5.0 - Employer's agents F:..... V:..... T:.....		Item
6	Clause 6.0 - Contractor's site representative F:..... V:..... T:.....		Item
7	Clause 7.0 - Compliance with laws and regulations Without limiting the generality of the provisions of clause 7.0, the contractor's attention is drawn to the provisions of the Construction Regulations, 2014 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 reasonable provisions of the aforementioned health and safety specifications [7.1] The contractor shall allow for and pay any levies required by the National Home Builders Registration Council (NHBRC). The contractor warrants that he is registered and will maintain registration with the NHBRC for the duration of this agreement [7.1] F:..... V:..... T:.....		Item
8	Clause 8.0 - Works risk F:..... V:..... T:.....		Item
9	Clause 9.0 - Indemnities F:..... V:..... T:.....		Item
10	Clause 10.0 - General insurances F:..... V:..... T:.....		Item
		Carried Forward	R
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries		

Brought Forward

R

11 Clause 11.0 - Special insurances
 F:..... V:..... T:.....

Item

12 Clause 12.0 - Effecting insurances
 F:..... V:..... T:.....

Item

13 Clause 13.0 - Assignment
 F:..... V:..... T:.....

Item

14 Clause 14.0 - Security
 F:..... V:..... T:.....

Item

Execution (A15 - A23)

15 Clause 15.0 - Preparation for and execution of the works

User Note

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

Item

16 Clause 16.0 - Site and access

The contractor shall work within the stand for each housing units as idicated on the Arhitectural Drawings [16.1]

The contractor shall make sure that existing toilets, electrical installations are kept in good working order and the diversion of services to the new permanent housing units are done without inconveniencing the current occupants taking into account current building regulations health and saftey specifications

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

Item

17 Clause 17.0 - **Contract instructions**

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

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

18 Clause 18.0 - Setting out of the works

The **contractor** shall notify the **principal agent** if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments [18.1].

F: V: T:

Item

19 Clause 19.0 - Temporary works and plant

Clause 19.1.1 - Enclosure of the works
 Clause 19.1.2 - Office accommodation
 Clause 19.2 - Advertising rights and notice boards

F: V: T:

Item

20 Clause 20.0 - **Nominated subcontractors**

Refer to the provisions on general attendance hereinafter

F: V: T:

Item

21 Clause 21.0 - **Selected subcontractors**

General attendance of **n/s subcontractors** for pricing by the **contractor** shall be in accordance with the **n/s agreement**. Notwithstanding this provision, general attendance shall be deemed to include for the **contractor** to provide free of charge to any n/s subcontractor such scaffolding as may reasonably be required by such **n/s subcontractor** for the execution of the relevant subcontract work

F: V: T:

Item

22 Clause 22.0 - Employer's direct contractors

F: V: T:

Item

23 Clause 23.0 - Contractor's domestic subcontractors

F: V: T:

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

Completion (A24 - A30)

24 Clause 24.0 - **Practical completion**
 F:..... V:..... T:.....

Item

25 Clause 25.0 - **Works completion**
 F:..... V:..... T:.....

Item

26 Clause 26.0 - Final completion
 F:..... V:..... T:.....

Item

27 Clause 27.0 - **Latent defects** liability period
 F:..... V:..... T:.....

Item

28 Clause 28.0 - Sectional completion **N/A**
 F:..... V:..... T:.....

Item

29 Clause 29.0 - Revision of date for **practical completion**
 The removal and replacement of materials and/or workmanship which do not conform to specification or the **contract drawings** shall not constitute grounds for the extension of the **construction period** nor for the adjustment of the **contract value** (Clause 29.3)
 F:..... V:..... T:.....

Item

30 Clause 30.0 - Penalty for late or non-completion
 F:..... V:..... T:.....

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

Payment (A31 - A35)

31 Clause 31.0 - Interim payment

The inclusion of **materials and goods** stored off **site** in the amount authorised for payment in terms of clause 31.4 shall be at the sole discretion of the **principal agent** and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank. Clause 31.6.5 is therefore not applicable [31.4.2, 31.6.5]

Materials and goods stored off **site** shall not be included in the amount authorised for payment [31.6.5]

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

Item

32 Clause 32.0 - Adjustment to the **contract** value

All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the **contractor** [32.13]

Where prices are submitted by the **contractor** or **n/s subcontractor** during the progress of the **works** in respect of **contract instructions** or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim **payment certificate**, there is to be no presumption of acceptance. Should the **principal agent** wish to accept any such prices prior to the issue of the **certificate of final completion**, it shall be in writing

The **contractor** shall not receive any mark-up for overheads and profit on any omission of tenant installation work or tenant installation work by others. Claims for loss or profit shall not be entertained [32.2]

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

Item

33 Clause 33.0 - Recovery of expense and loss

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

Item

34 Clause 34.0 - Final account and final payment

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

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

35 Clause 35.0 - Payment to other parties
 F:..... V:..... T:.....

Item

Termination (A36 - A39)

36 Clause 36.0 - Termination by **employer** - **contractor's** default
 F:..... V:..... T:.....

Item

37 Clause 37.0 - Termination by **employer** - loss and damage
 F:..... V:..... T:.....

Item

38 Clause 38.0 - Termination by **contractor** - **employer's** default
 F:..... V:..... T:.....

Item

39 Clause 39.0 - Termination - cessation of the **works**
 F:..... V:..... T:.....

Item

Dispute (A40)

40 Clause 40.0 - Settlement of disputes
 F:..... V:..... T:.....

Item

Contract variables (A41 - A42)

41 Clause 41.0 - Post tender provisions

 The **contractor** is to complete before submission of his tender the **JBCC** Principal Building Agreement **Contract Data CE**
 F:..... V:..... T:.....

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

42 Clause 42.0 - Contractual agreement

The required information of the contracting **parties** and the amount of the accepted **contract sum** shall be inserted in the **agreement** for signature of the agreement by the **parties**

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

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

SECTION B - PRELIMINARIES

Definitions and interpretation (B1)

43 Clause 1.0 - Definitions and interpretation

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

Item

Documents (B2)

44 Clause 2.1 - Checking of documents

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

Item

45 Clause 2.2 - Provisional **bills of quantities**

These **bills of quantities** are in multiple procurement format ie earthworks, plumbing and general and external works - are provisionally measured and the subsequent trades are **budgetary allowances** and/or selected/nominated subcontract amounts

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

Item

46 Clause 2.3 - Availability of construction documentation

The **budgetary allowances** and selected nominated/subcontract amounts allocated for subsequent trades included in this **agreement** will be separately procured, based on multiple procurement of selected/nominated subcontractors during the **construction period**

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

Item

Previous work and adjoining properties (B3)

47 Clause 3.1 - Previous work - dimensional accuracy

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

Item

48 Clause 3.2 - Previous work - defects

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

Item

49 Clause 3.3 - Inspection of adjoining properties

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

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

Samples, shop drawings and manufacturer's instructions (B4)

- 50 Clause 4.1 - Samples of materials
 F:..... V:..... T:.....
- 51 Clause 4.2 - Workmanship samples
 F:..... V:..... T:.....
- 52 Clause 4.3 - Shop drawings
 F:..... V:..... T:.....
- 53 Clause 4.4 - Compliance with manufacturer's instructions
 F:..... V:..... T:.....

Item
 Item
 Item
 Item

Deposits and fees (B5)

- 54 Clause 5.1 - Deposits and fees
 F:..... V:..... T:.....

Item

Temporary services (B6)

- 55 Clause 6.1 - Water
 F:..... V:..... T:.....
- 56 Clause 6.2 - Electricity
 F:..... V:..... T:.....
- 57 Clause 6.3 - Telecommunication facilities
 F:..... V:..... T:.....
- 58 Clause 6.4 - Ablution facilities
 F:..... V:..... T:.....

Item
 Item
 Item
 Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

Prime cost amounts (B7)

59 Clause 7.1 - Responsibility for **prime cost amounts**

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

Item

Special attendance on n/s subcontractors (B8)

60 Clause 8.1 - Special attendance

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

Item

General (B9)

61 Clause 9.1 - Protection of the works

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

Item

62 Clause 9.2 - Protection/isolation of existing/sectionally occupied **works**

Existing ablution on each stand to be used by the residents for the duration of the project

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

Item

63 Clause 9.3 - Security of the **works**

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

Item

64 Clause 9.4 - Notice before covering work

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

Item

65 Clause 9.5 - Disturbance

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

Item

66 Clause 9.6 - Environmental disturbance

The **employer** has prepared an environmental management plan (EMP) (Refer to Annexure for a copy of the relevant plan). The **contractor** shall price opposite this item for compliance with all the requirements of such emp

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

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

67 Clause 9.7 - **Works** cleaning and clearing
 F:..... V:..... T:.....

Item

68 Clause 9.8 - Vermin
 F:..... V:..... T:.....

Item

69 Clause 9.9 - Overhand work
 F:..... V:..... T:.....

Item

Schedule of variables (B10)

Information necessary for elections and completion of those clauses contained in the 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

- 10.1 - Provisional **bills of quantities** [clause 2.2]
 The quantities are provisional No
- 10.2 - Availability of construction documentation [clause 2.3]
 Construction documentation is complete Yes
- 10.3 - Previous work - dimensional accuracy [clause 3.1]
- 10.4 - Previous work - defects [clause 3.2]
- 10.5 - Inspection of adjoining properties [clause 3.3]
- 10.6 - Water [clause 7.2]
 - Option A (by **contractor**) no
 - Option B (by **employer** - free of charge) no
 - Option C (by **employer** - metered) yes
- 10.7 - Electricity [clause 7.3]
 - Option A (by **contractor**) no
 - Option B (by **employer** - free of charge) no
 - Option C (by **employer** - metered) yes

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

	Brought Forward	R
10.8 - Telecommunications [clause 7.4]		
Telephone	<i>no</i>	
Facsimile	<i>no</i>	
E-mail	<i>no</i>	
10.9 - Ablution facilities [clause 7.5]		
Option A (by contractor)	<i>yes</i>	
Option B (by employer)	<i>no</i>	
10.10 - Protection of the works [clause 9.1]		
10.11 - Protection/isolation of existing/sectionally occupied works [clause 9.2]		
Protection/isolation is required	Yes	
10.12 - Disturbance [clause 9.5]		
10.13 - Environmental disturbance [clause 9.6]		
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries	Carried Forward	R

Brought Forward

R

SECTION C - SPECIFIC PRELIMINARIES

Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item

70 **C1.0 TEMPORARY PARKHOMES ACCOMODATION**

Provision of Temporary Park Homes for the accomodation of residence occupying current RDP houses for the duration of the construction works and to comply with required manufactures saftey standards and specifications

Fixed: _____ Value related: _____ Time related: _____

Item

71 **C2.0 CONTRACT DRAWINGS**

The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the **works** and the manner in which they are to be executed

Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the **principal agent**

Fixed: _____ Value related: _____ Time related: _____

Item

72 **C3.0 GENERAL PREAMBLES**

For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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

Fixed: _____ Value related: _____ Time related: _____

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

73 **C4.0 TRADE NAMES**

Wherever a trade name for any product has been described in the **bills of quantities / lump sum document**, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the **principal agent** being obtained prior to the closing date for submission of tenders

If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for

Fixed: _____ Value related: _____ Time related: _____

Item

74 **C10.0 HIV/AIDS AWARENESS**

It is required of the **contractor** to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities / lump sum document**. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

The **contractor** must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

C10.1 AWARENESS CHAMPION

Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification

Fixed: _____ Value related: _____ Time related: _____

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

	Brought Forward	R	
C10.2 AWARENESS WORKSHOPS			
<p>Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification</p>			
<p>Fixed: _____ Value related: _____ Time related: _____</p>			
		Item	
C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.			
<p>Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p>			
<p>Fixed: _____ Value related: _____ Time related: _____</p>			
		Item	
C10.4 ACCESS TO CONDOMS			
<p>Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p>			
<p>Fixed: _____ Value related: _____ Time related: _____</p>			
		Item	
C10.5 MONITORING			
<p>Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification</p>			
<p>Fixed: _____ Value related: _____ Time related: _____</p>			
		Item	
		Carried Forward	
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries		R	

Brought Forward

R

75 **C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT**

The **contractor** shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)

It is required of the **contractor** to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities / lump sum document**

The **contractor** must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained

Notwithstanding any clause to the contrary regarding Occupational Health and Safety Act CONTRACT DATA the **contractor** shall provide a health and safety plan to the **employer** on the date of taking **possession** of the **site**

Fixed:_____ Value related:_____ Time related:_____

Item

76 **C12.0 SECURITY CLEARANCE BY N/A**

Notwithstanding anything to the contrary contained in clauses C5 to C8 herein the **Contractor** must make allowance for NIA clearance

All personnel, workmen, etc. of the **contractor** and **subcontractors** who will be engaged on **site** will be subject to NIA security clearance before taking **possession** of the **site**

No persons not having NIA security clearance shall be allowed on **site**

All new personnel appointed during the **construction period** will also be subject to the same requirements

Fixed:_____ Value related:_____ Time related:_____

Item

Carried to Final Summary

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 1</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>DESCRIPTIONS</u></p> <p>The contractor is referred to the successive sections and bills for preambles and full descriptions of materials and items not described in this bill which will apply equally to the work in this bill unless otherwise described</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>Use "assumed to be" if no trial holes, soils investigation, etc. have been carried out - discuss with engineer Use "Trial holes indicate that" where the ground has been investigated by means of trial holes</p> <p>The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "soft rock" or "hard rock"</p> <p>The nature of the ground is assumed to be gravel, therefore "earth", but possibly interspersed with "soft rock" or "hard rock"</p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 BUILDING WORKS Bill No. 1 Earthworks</p>			

<p style="text-align: center;">Brought Forward</p> <p>The nature of the ground is assumed to be silty clay with loose river boulders varying in size up to approximately 450mm diameter, all of which will be deemed as "earth", but possibly interspersed with "hard rock"</p> <p>A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"</p> <p>Trial holes indicate that the nature of the ground is silty clay to a depth of approximately 500mm with fine to medium loose sandy material below, therefore "earth"</p> <p><u>Subterranean water</u></p> <p>No subterranean water is expected</p> <p><u>Carting away of excavated material</u></p> <p>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</p> <p><u>Filling</u></p> <p>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</p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 BUILDING WORKS Bill No. 1 Earthworks</p>		R	

		Brought Forward		R
<u>DEMOLITIONS, ETC.</u>				
<u>REMOVAL OF EXISTING WORK</u>				
<u>Taking down and removing roofs</u>				
1	Removal and Safe Disposal of Asbestos cement roof sheet big six roof structure and disposal of material in accordance with the OHS act 1993,act.no 85 Asbestos regulation of feb 2002			
	A: 580	m2	580	
<u>Demolishing and removing</u>				
2	Single storey "RDP" building with flat roof approximatley 58m2 on plan and 2.5m high overall, comprising reinforced concrete surface bed,foundations, external walls and internal walls (asbestos roof removal elsewhere)			
	A: 10	No	10	
<u>FOUNDATIONS</u>				
<u>EXCAVATION, FILLING, ETC. OTHER THAN BULK</u>				
<u>Excavation in earth not exceeding 2m deep, for</u>				
3	Raft foundations			
	A: 371	m3	371	
4	Thickening under surface beds etc			
	A: 14	m3	14	
<u>Extra over bulk excavations in earth for excavation in</u>				
5	Soft rock			
	A: 19	m3	19	
6	Hard rock			
	A: 37	m3	37	
		Carried Forward		R
Section No. 2 BUILDING WORKS Bill No. 1 Earthworks				

	Brought Forward			R
	<u>Extra over all excavations for carting away</u>			
7	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor A: 395	m3	395	
	<u>Risk of collapse of excavations, to</u>			
8	Sides of trench and hole excavations not exceeding 1,5m deep A: 213	m2	213	
	<u>Keeping excavations free of water</u>			
9	Keeping excavations free of water other than subterranean water		Item	
	<u>FILLING, ETC.</u>			
	<u>G6 filling material supplied by the contractor, compacted to 95% Mod AASHTO density at 2% OMC in 150mm layers</u>			
10	Under floors, steps, pavings, etc A: 74	m3	74	
	<u>G6 filling material supplied by the contractor, compacted to 93% Mod AASHTO density at 2% OMC in 150mm layers</u>			
11	Under floors, steps, pavings, etc A: 148	m3	148	
	<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 95% Mod AASHTO density A: 494	m2	494	
	<u>Prescribed density tests on filling</u>			
13	"Modified AASHTO Density" test A: 50	No	50	
	<u>SOIL POISONING</u>			
	Carried Forward			R
	Section No. 2 BUILDING WORKS Bill No. 1 Earthworks			

Brought Forward			R	
<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 A: 494	m2	494	
15	To bottoms and sides of trenches etc A: 180	m2	180	
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>30MPa/19mm concrete, in</u>				
16	Strip footings A: 16	m3	16	
17	Ground beams A: 54	m3	54	
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
<u>Rough formwork to sides, of</u>				
18	Beams A: 170	m2	170	
19	Edges, risers, ends and reveals not exceeding 300mm high or wide A: 284	m	284	
<u>REINFORCEMENT</u>				
<u>Mild steel reinforcement to structural concrete work</u>				
20	8mm Diameter bars A: 1.30	t	1.30	
Carried Forward			R	
Section No. 2 BUILDING WORKS Bill No. 1 Earthworks				

Brought Forward

R

High tensile steel reinforcement to structural concrete work

21 12mm Diameter bars
 A: 1.98

t 1.98

Carried Forward to Summary of Section No. 2

Section No. 2
 BUILDING WORKS
 Bill No. 1
 Earthworks

R

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cost of tests</u></p> <p>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)</p> <p><u>Formwork</u></p> <p>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"</p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 BUILDING WORKS Bill No. 2 Concrete, Formwork and Reinforcement</p>			

Brought Forward				R
<u>Equal or Approved items Descriptions</u>				
Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required				
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>15MPa/19mm concrete, in</u>				
1	1000mm wide Aprons slabs shaped and compacted to a minimum 1-100 fall away from the building A: 32	m3	32	
2	Non-slip wood float finish to top of aprons to falls A: 324	m2	324	
<u>Expansion Joints</u>				
3	10mm Bitumen impregnated softboard expansion joint between concrete aprons and brickwall 100mm high A: 284	m	284	
<u>Rough formwork to sides, of</u>				
4	Edges, risers, ends and reveals not exceeding 300mm high or wide A: 364	m	364	
<u>TEST CUBES</u>				
5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional) A: 50	No	50	
<u>REINFORCED CONCRETE</u>				
Carried Forward				R
Section No. 2 BUILDING WORKS Bill No. 2 Concrete, Formwork and Reinforcement				

Brought Forward			R	
<u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25 MPa at 28 days</u>				
6	Surface beds A: 63	m3	63	
<u>CONCRETE SUNDRIES</u>				
<u>Finishing top surfaces of concrete smooth with a steel trowel, to</u>				
7	Surface beds, slabs, etc A: 420	m2	420	
<u>Fabric reinforcement</u>				
8	Type 193 fabric reinforcement in concrete apron slabs. etc with 300mm wide side and end laps A: 420	m2	420	
Carried Forward to Summary of Section No. 2				R
Section No. 2 BUILDING WORKS Bill No. 2 Concrete, Formwork and Reinforcement				

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 3</u></p> <p><u>PRECAST CONCRETE</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p>Prices are to include for building into brick walls as single units or combinations of two or more units and for bedding solid all round in mortar and pointing on both sides with square recessed joints</p> <p>Door frames are to be checked before delivery for structural integrity and quality assurance. Prefabricated material not meeting the required quality standards will be rejected</p> <p><u>PREFABICATED DOOR FRAME</u></p> <p><u>Betecrete polycrrete door frame fitted to the centre of brickwalls</u></p>			
1	<p>Frame for door 813 x 2032mm high A: 50</p>	No 50		
	Carried Forward		R	
	<p>Section No. 2 BUILDING WORKS Bill No. 3 Precast concrete</p>			

	Brought Forward				R
	<u>PRECAST CONCRETE DOOR SILLS, ETC.</u>				
	<u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u>				
2	Betecrete polycrete door sills weathered on top for a width of 110mm along front edge bedded to external door openings A: 16	m	16		
	<u>SUNDRIES</u>				
3	Standard concrete gulley including uPVC underground head and 110mm grate A: 10	No	10		
	Carried Forward to Summary of Section No. 2				R
	Section No. 2				
	BUILDING WORKS				
	Bill No. 3				
	Precast concrete				

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 4</u></p> <p><u>MASONRY</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p><u>Bagged and sealed walls</u></p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats stable bitumen emulsion waterproofing coating</p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 BUILDING WORKS Bill No. 4 Masonry (local package.1)</p>			

Brought Forward			R	
<u>BRICKWORK IN SUPERSTRUCTURE</u>				
<u>Brickwork of NFP bricks (7Mpa compressive strength) bricks in class II mortar, in</u>				
1	Half brick walls A: 370	m2	370	
2	One brick walls A: 669	m2	669	
3	One brick walls in beamfilling A: 97	m2	97	
<u>Brickwork reinforcement</u>				
4	75mm Wide reinforcement built in horizontally A: 1450	m	1 450	
5	150mm Wide reinforcement built in horizontally A: 2940	m	2 940	
<u>Galvanised wire ties etc</u>				
6	4mm Diameter roof tie 2m girth bent double, with one end built into brickwork and other end fixed to timber A: 520	No	520	
<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>				
7	105 x 75mm Lintels in lengths not exceeding 3m A: 300	m	300	
<u>FIBRE-CEMENT WINDOW SILLS</u>				
<u>Natural grey sills in single lengths bedded in class II mortar including metal fixing lugs etc</u>				
8	500 x 180mm Wide sills set sloping and slightly projecting A: 71	m	71	
<u>GRANITE</u>				
Carried Forward			R	
Section No. 2 BUILDING WORKS Bill No. 4 Masonry (local package.1)				

Brought Forward		R	
<u>Granite with polished finish</u>			
9	30mm thick x 600mm wide black engineered granite countertop with square edges on steel support heavy duty wall brackets fixed to partitions, brick walls or concrete including cutting out for sink opening (sink & steel wall bracket measured elsewhere) A: 12	m	12
10	Extra over for cutting out sink opening A: 10	No	10
Carried Forward to Summary of Section No. 2		R	
Section No. 2 BUILDING WORKS Bill No. 4 Masonry (local package.1)			

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 5</u></p> <p><u>WATERPROOFING</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Waterproofing</u></p> <p>Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p> <p><u>DAMPPROOFING OF WALLS AND FLOORS</u></p>			
<p>Section No. 2 BUILDING WORKS Bill No. 5 Waterproofing</p>	<p>Carried Forward</p>	<p>R</p>	

	Brought Forward			R
	<u>One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)</u>			
1	In walls A: 62	m2	62	
2	In walls vertically at reveals A: 56	m2	56	
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer 160 micron green polyethylene waterproof sheeting sealed at laps with PVC self-adhesive tape</u>			
3	Under surface beds A: 420	m2	420	
	<u>SEALING STRIPS, JOINT SEALANTS, ETC.</u>			
	<u>Clear silicone sealant</u>			
4	10 x 10 mm in joints between frames and walls A: 255	m	255	
5	Between plastered walls and sanitary fittings A: 50	m	50	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	BUILDING WORKS			
	Bill No. 5			
	Waterproofing			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>ROOF COVERINGS, ETC.</u>			
	<u>KEY LOCATIONS</u>			
	A: Erf 10 stands			
	<u>PREAMBLES</u>			
	For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Equal or Approved items Descriptions</u>			
	Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm interlocking IBR profile steel sheeting in single lengths and accessories, with approved pre painted finish on one side, fixed to and including timber purlin</u>			
1	Roof covering with pitches not exceeding 25 degrees to timber purlins			
	A: 680	m2		680
2	Ridge cappings			
	A: 20	m		20
3	Hip cappings			
	A: 211	m		211
	Carried Forward to Summary of Section No. 2			
	Section No. 2			
	BUILDING WORKS			
	Bill No. 6			
	Roof Coverings, etc			
			R	

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 7</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing</u></p> <p>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</p> <p>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</p> <p><u>Joinery</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, rails, etc</p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>ROOFS, ETC.</u></p>			
Carried Forward		R	
<p>Section No. 2 BUILDING WORKS Bill No. 7 Carpentry and Joinery (local package.2- doors&kitchen)</p>			

	Brought Forward				R
	<u>Sawn softwood grade 6</u>				
1	38 x 114mm Wall plates bolted A: 304	m	304		
2	Extra over for 50 x 76mm tilting fillets at eaves A: 324	m	324		
	<u>Sundries</u>				
3	Two coats creosote on sawn timbers A: 83	m2	83		
	<u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	References given in descriptions refer to the respective types of trusses detailed on the architect's/engineer's drawings annexed to these bills of quantities (accompanying these bills of quantities for tender purposes)				
	Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences				
	<u>Sawn softwood</u>				
4	Prefabricated hip roof construction of hip roof trusses in step down system including hip ends size 9.1 x 7.1m x 1.25mm high all round overall consisting of rafters, tie beams, jack rafters, bracing with fixing accessories by a certified roofing specialist in accordance with the SANS with valid certificate of competence to receive roof covering (wall plates measured elsewhere)			Item	
	A: 10.00				
	<u>Fibre-cement fascias and barge boards</u>				
5	12 x 225mm Grooved fascias and barge boards, including galvanised steel H-profile joiners A: 324	m	324		
	Carried Forward				R
	Section No. 2 BUILDING WORKS Bill No. 7 Carpentry and Joinery (local package.2- doors&kitchen)				

Brought Forward				R
<u>DOORS, ETC.</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Medium duty exterior hardwood door hung to polycrrete door frames</u>				
6	PD8 Plypanel exterior two panel hardwood door 813 x 2032mm high A: 10	No	10	
7	PD1 FLB open back ply exterior panel hardwood door 813 x 2032mm high A: 10	No	10	
<u>Sapele interior light hollowcore flushdoor (Code:91104) manufactured in accordance with SANS 545:1989 hung to polycrrete door frames</u>				
8	40mm Door 813 x 2032mm high A: 30	No	30	
<u>CUPBOARDS TO KITCHENS, BEDROOMS, ETC.</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>General</u>				
<p>The following cupboard fittings have been given as complete units i.e. the components of the units have not been given separately. Descriptions of such units shall, therefore, be deemed to include all components, assembling, housing, notching, glueing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes, etc</p> <p>Prices are to include for all necessary filler pieces against walls etc</p>				
Carried Forward				R
Section No. 2 BUILDING WORKS Bill No. 7 Carpentry and Joinery (local package.2- doors&kitchen)				

	Brought Forward				R
9	Floor cupboard type White melamine or similar approved 1200 x 560 x 760mm high with top, sides, bottom, division, shelves, back and double hinged doors, dividing framework fitted in position and complete (handles measured elsewhere)				
	A: 10	No	10		
10	Sink cupboard type 900 x 560 x 760mm high with sides, bottom, divisions, shelf, back and double hinged doors (sink elsewhere)				
	A: 10	No	10		
Carried Forward to Summary of Section No. 2					R
Section No. 2					
BUILDING WORKS					
Bill No. 7					
Carpentry and Joinery (local package.2- doors&kitchen)					

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 8</u></p> <p><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing</u></p> <p>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</p> <p><u>Ceilings</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>CEILING TIMBERS, BEADS, INSULATION, ETC.</u></p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 BUILDING WORKS Bill No. 8 Ceilings, Partitions and Access Flooring (Local package.3)</p>			

Brought Forward			R
<u>Insulation</u>			
1	135mm Insulation in blanket form lapped not less than 50mm along all edges and laid on top of brandering between roof timbers etc A: 420	m2	420
<u>NAILED-UP CEILINGS</u>			
<u>6mm "Cladit" fibre cement plain ceiling board with H-profile galvanised steel pre painted jointing strips</u>			
2	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres and cross brandering at 450mm centres A: 420	m2	420
3	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around A: 10	No	10
<u>Standard nutec cornices</u>			
4	75 mm Coved cornices A: 510	m	510
Carried Forward to Summary of Section No. 2			R
Section No. 2 BUILDING WORKS Bill No. 8 Ceilings, Partitions and Access Flooring (Local package.3)			

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 9</u></p> <p><u>IRONMONGERY</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>Finishes to ironmongery</u></p> <p>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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 BUILDING WORKS Bill No. 9 Ironmongery (Local package.4)</p>			

Brought Forward					
		R			
<u>Equal or Approved items Descriptions</u>					
Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required					
<u>LOCKS</u>					
1	Ironbrass plated padlock fixed to security gates A: 20	No	20		
<u>Manufactured by "Solid" or similar approved</u>					
2	Two-lever lockset LA953/2L (SKL) with chrome plated finish including handles with striking plate fixed to concrete frames A: 30	No	30		
3	Three-lever lockset LA 953/3L with chrome plated finish including handles with striking plate fixed to concrete frames A: 20	No	20		
<u>SUNDRIES</u>					
4	Aluminium door code: (AL8730AS) stoper with anodised silver finish plugged. A: 20	No	20		
5	Betcrete polycrrete door sill A: 20	No	20		
<u>BATHROOM FITTINGS</u>					
6	CP Towel ring plugged A: 10	No	10		
Carried Forward				R	
Section No. 2 BUILDING WORKS Bill No. 9 Ironmongery (Local package.4)					

	Brought Forward			R
7	CP paper ring holder plugged A: 10	No	10	
	<u>HANGLES</u>			
	<u>Cupboard handles</u>			
8	96mm curved line black nickel "viking" cupboard handles A: 40	No	40	
	<u>PELMETS AND CURTAIN TRACKS</u>			
	<u>Curtain Tracks</u>			
9	Single curtain tracks for soffit fixing including 10 roller gliders per metre, stops, two end caps, brackets, etc plugged into walls above windows A: 80	m	80	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	BUILDING WORKS			
	Bill No. 9			
	Ironmongery (Local package.4)			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 10</u></p> <p><u>METALWORK</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions of bolts, anchors, etc</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>GALVANISED STEEL GATES SCREENS, ETC.</u></p> <p><u>Econo security gate</u></p> <p>1 Single security gate 980 x 2032mm high approved powder coated mild steel square tubing frame complete with hinges and rounded welded bar inserts with shoot bolt mechanism to receive padlocks (padlock measured elsewhere)</p> <p style="margin-left: 40px;">A: 20</p>	No	20	
	Carried Forward		R	
	<p>Section No. 2 BUILDING WORKS Bill No. 10 Metalwork (Local Package.5)</p>			

Brought Forward					
<u>GALVANISED STEEL WINDOWS, DOORS, ETC.</u>					
<u>Standard residential windows</u>					
2	Window type NCTX7S 1022 x 949mm high A: 10	No	10		
3	Window type NCTX7S5 1511 x 949mm high A: 10	No	10		
4	Window type TD151 1511 x 1264mm high A: 30	No	30		
Carried Forward to Summary of Section No. 2					
Section No. 2					
BUILDING WORKS					
Bill No. 10					
Metalwork (Local Package.5)					

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 11</u></p> <p><u>PLASTERING</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>GRANOLITHIC</u></p> <p><u>Method</u></p> <p>The method to be used shall be either the monolithic method or the bonded method</p> <p><u>Preparation</u></p> <p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic</p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 BUILDING WORKS Bill No. 11 Plastering (Local Package.6)</p>			

Brought Forward				R
Mix				
<p>Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic</p>				
Panels				
<p>Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width</p>				
Equal or Approved items Descriptions				
<p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p>				
GRANOLITHIC				
Untinted granolithic, on concrete				
1	30mm Thick on floors and landings A: 420	m2	420	
INTERNAL PLASTER				
13mm (1:5) Cement plaster steel trowelled on brickwork				
2	On walls A: 1285	m2	1 285	
3	On narrow widths A: 55	m2	55	
EXTERNAL PLASTER				
Carried Forward				R
<p>Section No. 2 BUILDING WORKS Bill No. 11 Plastering (Local Package.6)</p>				

Brought Forward				R
<u>13mm (1:5) Cement plaster steel trowelled on brickwork</u>				
4	On walls A: 710	m2	710	
5	On narrow widths A: 39	m2	39	
6	On sides and front top edge of surrounds 220mm girth A: 195	m	195	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
BUILDING WORKS				
Bill No. 11				
Plastering (Local Package.6)				

Item No		Quantity	Rate	Amount
	<u>BILL NO. 12</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>KEY LOCATIONS</u>			
	A: Erf 10 stands			
	<u>PREAMBLES</u>			
	For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Equal or Approved items Descriptions</u>			
	Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required			
	<u>RAINWATER DISPOSAL</u>			
	<u>0,6mm Galvanised sheet steel gutters and rainwater pipes</u>			
1	102 x 125mm Roof gutters with beaded front edge A: 336	m	336	
2	100 x 100mm Rainwater pipes with crimp shoe A: 128	m	128	
3	Extra over gutter for angle A: 40	No	40	
4	Extra over gutter for outlet A: 40	No	40	
	Carried Forward			R
	Section No. 2 BUILDING WORKS Bill No. 12 Plumbing & Drainage (Local Package.7)			

Brought Forward			R
5	Extra over rainwater pipe for plinth bend A: 40	No	40
6	Extra over rainwater pipe for eaves offset A: 40	No	40
<u>Stainless steel</u>			
7	750 x 400mm Steel sink drop on sink with single end bowl on galvanised steel brackets A: 10	No	10
<u>"Thandi"</u>			
8	Courier Basin lavatory basin on universal floor mounted pedestal A: 10	No	10
9	Low Level "WC suite in a box" comprising pan with double flap plastic seat and matching 9 litre plastic cistern and flushing mechanism A: 10	No	10
10	1700 x 750mm "Thandi" bath with waste outlet, overflow grating with coupling and pair of handles, bedded in position A: 10	No	10
<u>"Vaal"</u>			
<u>WASTE UNIONS, ETC.</u>			
<u>"Cobra Watertech"</u>			
11	32mm Basin waste union plug and chain for standard size basin A: 10	No	10
12	32mm Bath waste union plug and chain for standard size baths A: 10	No	10
13	40mm sink waste union A: 10	No	10
Carried Forward			R
Section No. 2 BUILDING WORKS Bill No. 12 Plumbing & Drainage (Local Package.7)			

Brought Forward			R
<u>TRAPS, ETC.</u>			
<u>"PVC"</u>			
14	38 x 40mm plain bath trap A: 10	No	10
<u>"Rubber"</u>			
15	32 x 50mm single bowl sink and basin reseal "P" or "S" trap combination A: 20	No	20
<u>TAPS, VALVES, ETC.</u>			
16	15mm CP bath pillar taps A: 20	No	20
17	15mm CP basin pillar taps A: 10	No	10
18	15mm CP Sink pillar taps A: 10	No	10
19	15mm CP Angle Valve A: 20	No	20
<u>SANITARY PLUMBING</u>			
<u>uPVC soil and vent pipes</u>			
20	110mm Pipes A: 10	m	10
21	50mm Pipes A: 90	m	90
22	50mm Pipes chased into brickwork A: 40	m	40
<u>Extra over uPVC soil and vent pipes for fittings</u>			
23	110mm Pan connector A: 10	No	10
Carried Forward			R
Section No. 2 BUILDING WORKS Bill No. 12 Plumbing & Drainage (Local Package.7)			

**INFILL HOUSING DIBENG X 10 UNITS
BILLS OF QUANTITIES
SIOC CDT
NC/001/2020/B**

		Brought Forward		R	
24	110mm Air vent valve A: 10	No	10		
25	110mm Access Bend A: 10	No	10		
26	50mm Bend A: 30	No	30		
27	50mm Junction A: 40	No	40		
28	50mm Access bend A: 20	No	20		
<u>Testing</u>					
29	Testing waste pipe system		Item		
<u>WATER SUPPLIES</u>					
<u>Class 0 copper pipes with capillary couplings</u>					
30	15mm Pipes A: 110	m	110		
<u>Extra over Class 0 copper pipes for capillary fittings</u>					
31	15mm Fittings A: 180	No	180		
<u>Flexible service pipes</u>					
32	15mm Service pipe 350mm girth A: 40	No	40		
<u>Municipal connection</u>					
33	Provide the sum of R 2000,00 (Two Thousand Rands) for municipal connection		Item		20 000 00
34	Profit		Item		
		Carried Forward		R	
Section No. 2 BUILDING WORKS Bill No. 12 Plumbing & Drainage (Local Package.7)					

Brought Forward

R

Testing

35 Testing water pipe system

Item

AS-BUILT DRAWINGS

36 Provision of as-built drawings

Item

Carried Forward to Summary of Section No. 2

Section No. 2
 BUILDING WORKS
 Bill No. 12
 Plumbing & Drainage (Local Package.7)

R

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 13</u></p> <p><u>GLAZING</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>GLAZING TO STEEL WITH PUTTY</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Float glass</u></p> <p>The term "float glass" is used for monolithic annealed glass</p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>GLAZING TO STEEL WITH PUTTY</u></p> <p><u>6mm Clear toughened safety glass</u></p>			
1	<p>Panes exceeding 0,5m2 and not exceeding 2m2 in area A: 71</p>	m2	71	
	<p><u>4mm Obscure glass</u></p>			
2	<p>Panes exceeding 0,5 and not exceeding 2m2 in area A: 10</p>	m2	10	
	Carried Forward		R	
	<p>Section No. 2 BUILDING WORKS Bill No. 13 Glazing (Local Package.8)</p>			

Brought Forward		R
<u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u>		
<u>3mm frameless rectangular mirror with bevelled and polished edges, fixed with double sided adhesive tape and silicone</u>		
3	Mirror 450 x 700mm high	
A: 10	No	10
Carried Forward to Summary of Section No. 2		
Section No. 2		R
BUILDING WORKS		
Bill No. 13		
Glazing (Local Package.8)		

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 14</u></p> <p><u>PAINTWORK</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 10 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>ON INTERNAL FLOATED PLASTER SURFACES</u></p> <p><u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</u></p>			
1	<p>Walls A: 1117</p>	m2	1 117	
	<p><u>One coat alkali resistant primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint</u></p>			
2	<p>Walls A: 201</p>	m2	201	
	<p><u>ON EXTERNAL FLOATED PLASTER SURFACES</u></p>			
	Carried Forward			R
	<p>Section No. 2 BUILDING WORKS Bill No. 14 Painting (Local Package.9)</p>			

Brought Forward			R	
<u>One coat alkali resistant primer and two coats PVA emulsion paint for exterior use</u>				
3	Walls A: 703	m2	703	
<u>ON FIBRE-CEMENT BOARD SURFACES</u>				
<u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</u>				
4	Ceilings and cornices A: 420	m2	420	
<u>ON FIBRE-CEMENT BOARD SURFACES</u>				
<u>One coat alkali resistant primer and two coats PVA emulsion paint for exterior use</u>				
5	Fascias and barge boards, including priming metal jointing strips A: 149	m2	149	
<u>ON METAL SURFACES</u>				
<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>				
6	Windows A: 86	m2	86	
7	Eaves gutters A: 111	m2	111	
8	Rainwater downpipes A: 52	m2	52	
<u>ON WOOD SURFACES</u>				
<u>Two coats woodgard interior/exterior Timbavarnish alkyde vanish to exterior wood vanish</u>				
9	Doors A: 179	m2	179	
Carried Forward to Summary of Section No. 2				R
Section No. 2 BUILDING WORKS Bill No. 14 Painting (Local Package.9)				

Bill No		Page No		Amount
	Section No. 2			
	BUILDING WORKS			
	<u>SECTION SUMMARY - BUILDING WORKS</u>			
1	Earthworks	-24-		
2	Concrete, Formwork and Reinforcement	-27-		
3	Precast concrete	-29-		
4	Masonry (local package.1)	-32-		
5	Waterproofing	-34-		
6	Roof Coverings, etc	-35-		
7	Carpentry and Joinery (local package.2- doors&kitchen)	-39-		
8	Ceilings, Partitions and Access Flooring (Local package.3)	-41-		
9	Ironmongery (Local package.4)	-44-		
10	Metalwork (Local Package.5)	-46-		
11	Plastering (Local Package.6)	-49-		
12	Plumbing & Drainage (Local Package.7)	-54-		
13	Glazing (Local Package.8)	-56-		
14	Painting (Local Package.9)	-58-		
	Carried to Final Summary		R	
	Section No. 2			
	BUILDING WORKS			

Item No	Quantity	Rate	Amount
<u>EXTERNAL WORK</u>			
<u>BILL NO .1</u>			
<u>EXTERNAL WORKS,(ALL TRADES)</u>			
<u>(PROVISIONAL)</u>			
<u>KEY LOCATIONS</u>			
A: Erf 1600			
B: Erf 1604			
C: Erf 1605			
D: Erf 1472			
E: Erf 1473			
F: Erf 1474			
G: Erf 1597			
H: Erf 1596			
I: Erf 1599			
J: Erf 1598			
<u>PREAMBLES</u>			
<p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor including SANS 1200 for preambles on workmanship and materials and 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</p>			
<u>DESCRIPTIONS</u>			
<p>The contractor is referred to the successive sections and bills for preambles and full descriptions of materials and items not described in this bill which will apply equally to the work in this bill unless otherwise described</p>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Carried Forward		R	
Section No. 3 EXTERNAL WORKS Bill No. 1 External Works (Local packages.10)			

Brought Forward				R
<u>Equal or Approved items Descriptions</u>				
<p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p>				
<u>Cable Trenches</u>				
<p>Rates for cable trenches to make allowance for risk of collapse of excavations and keeping excavations free from water</p>				
<u>Civil Engineering Works SANS1200</u>				
<p>The rates of the civil engineering works in this section must take into account the South African Bureau of Standards Specifications for Civil Engineering Works as published and approved by the council of the South African Bureau of Standards.</p>				
<u>Cables</u>				
<p>Rates for cables shall make allowance for snaking</p>				
<u>Cable terminations and prescribed running joints</u>				
<p>Rates to make allowance for glands and making off</p>				
<u>High density polyethylene (HDPE) pipes and fittings</u>				
<p>Pipes shall be type IV and of the class specified with "Plasson" or "Alprene" compression fittings</p>				
<u>DEMOLITIONS, ETC.</u>				
<u>Taking down and removing</u>				
1	Existing steel diamond mesh security fence including gates with steel posts and droppers and 45 degree barbed wire overhang approximatley 1.2m high overall and grubbing out bases and remove from site	m	790	
Carried Forward				R
<p>Section No. 3 EXTERNAL WORKS Bill No. 1 External Works (Local packages.10)</p>				

Brought Forward					
				R	
<u>SITE CLEARANCE, ETC.</u>					
<u>Site clearance</u>					
2	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	2 430		
<u>FENCING</u>					
<u>Galvanised diamond mesh fence with steel standards, droppers and steel pipe posts, stays, gate, etc including galvanised steel bolts, straining eye bolts, etc, site clearance and preparation of ground</u>					
3	Fence 1.8m high of 1.8mm gauge wire thick of 64 x 64 aperture including type "i" profile type standards at not exceeding 3000mm centres with type "T" profile droppers at not exceeding 2000mm centres in between	m	790		
4	100mm diameter inclined stay 2.4m long, including concrete base	No	80		
5	100mm diameter corner post 2.4m long, including concrete base	No	40		
6	Double gate of 3.0 x 1.8m high of 76mm diameter framing "diamond mesh" type including hinges, spring latch with catch, etc	No	10		
<u>CIVIL ENGINEERING WORKS: SANS 1200</u>					
<u>EARTHWORKS: D#</u>					
<u>8.3.4 Importing of Material</u>					
7	a) Extra over for importation of material from commercial sources or from borrow pits of G6 material in forming and building up two platforms of 300mm thick and compacted at layers not exceeding 150mm thick to 95% Mod ASSHTO as specified by the engineer.	m3	158		
<u>EARTHWORKS (PIPES TRENCHES): DB</u>					
<u>Excavation: DB# 8.3.2</u>					
				R	
		Carried Forward			
Section No. 3 EXTERNAL WORKS Bill No. 1 External Works (Local packages.10)					

	Brought Forward			R	
	<u>Excavate in all materials for trenches backfill, compact and disposal of surplus material</u>				
	<u>a) Over 0mm and up to and including 125mm diameter for total trench depth (Water Pipelines):</u>				
8	i) Exceeding 0,0 m but not exceeding 1,0 m	m	310		
	<u>a) Over 0mm and up to and including 125mm diameter for total trench depth (Sewer Pipelines):</u>				
9	i) Exceeding 0,0 m but not exceeding 1,0 m	m	158		
	<u>Extra over for: DB # 8.3.2b</u>				
10	1) Intermediate Excavations	m3	16		
11	2) Hard Rock Excavations	m3	32		
12	c) Excavate and dispose of unsuitable material from trench bottom (Provisional)	m3	66		
	<u>Existing Services that Intersect or Adjoin a Pipe Trench DB # 8.3.5</u>				
13	a) Services that intersect a trench	No	10		
	<u>MEDIUM-PRESSURE PIPELINES: L#</u>				
	<u>Supply, Lay, and Bed Pipes Complete with Couplings: L# 8.2.1</u>				
14	20mm diameter HDPE pressure pipes	m	310		
	<u>Extra over 8.2.1 for the Supplying, Fixing, and Bedding of Valves L# 8.2.3</u>				
15	20mm Stop Ball Valves	No	10		
	<u>Extra over 8.2.1 for the Cutting of the Pipe and the Supplying and Fixing of the Extra Coupling: L# 8.2.4</u>				
16	Med pressure pipelines e.o. for cutting pipe & supply & fix extra couplings	No	10		
	Carried Forward			R	
	Section No. 3 EXTERNAL WORKS Bill No. 1 External Works (Local packages.10)				

	Brought Forward			R
	<u>Anchor/Thrust Blocks and Pedestals: L# 8.2.11</u>			
17	20 MPa/19mm Concrete.	m3	10	
	<u>Recover Old Pipeline L# 8.2.8</u>			
18	Existing Pipelines	m	210	
	<u>BEDDING (PIPES): LB#</u>			
	<u>Provision of Bedding from Trench Excavation: LB # 8.2.1</u>			
19	b) Selected fill material.	m3	31	
	<u>SEWER: LD#</u>			
	<u>Supply, lay, joint and bed non-pressure PVC pipes and test pipeline: LD # 8.2.1</u>			
20	1) 110 mm diameter PVC pipe	m	160	
	<u>Extra-Over item 8.2.1 for specials</u>			
21	1) 110 x 45 Rodding Eye	No	10	
	<u>ERF CONNECTION WATER: LF#</u>			
22	Provide erf connection Complete: LF # 8.2.1	No	10	
	Carried to Final Summary			R
	Section No. 3			
	EXTERNAL WORKS			
	Bill No. 1			
	External Works (Local packages.10)			

Item No		Quantity	Rate	Amount
	<p><u>PROVISIONAL SUMS</u></p> <p><u>BILL NO .1</u></p> <p><u>General</u></p> <p>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</p> <p>Prime cost amounts and provisional sums are net. Prime cost amounts include for delivery to site of all articles concerned</p> <p>Provisional sums are for material and equipment supplied and installed complete by firms of specialists</p> <p><u>Profit</u></p> <p>Where stated, the contractor may allow for profit if required</p> <p><u>General attendance on nominated/selected subcontractors</u></p> <p>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:</p> <ol style="list-style-type: none"> 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 <p><u>Builder's work</u></p> <p>Builder's work in connection with specialist services is given elsewhere in these bills of quantities</p>			
	Carried Forward		R	
	<p>Section No. 4 PROVISIONAL SUMS Bill No. 1 Provisional Sums</p>			

Brought Forward		R	
<u>Equal or Approved items Descriptions</u>			
Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required			
<u>BUDGETARY ALLOWANCES</u>			
<u>Landscaping (Local Package Content.10)</u>			
1	Provide the sum of R 1 600,00 (One Thousand Six Hundred Rands) for landscaping	Item	16 000 00
2	Profit	Item	
3	Attendance	Item	
<u>Community Liaison Officer</u>			
4	Provide the sum for Community Liaison Officer	Item	9 400 00
5	Profit	Item	
6	Attendance	Item	
<u>NHBRC Enrolments</u>			
7	Provide the sum of R 4 500.00 (Four Thousand Five Hundred Rands) for phase NHBRC enrolment	Item	45 000 00
8	Profit	Item	
9	Attendance	Item	
Carried to Final Summary			
Section No. 4		R	
PROVISIONAL SUMS			
Bill No. 1			
Provisional Sums			

FINAL SUMMARY

Section No		Page No	Amount
1	PRELIMINARIES AND GENERAL	-18-	
2	BUILDING WORKS	-59-	
3	EXTERNAL WORKS	-64-	
4	PROVISIONAL SUMS	-66-	
	Electrical Engineering Installation Schedule of Quantities Total Brought Forward ("Annexure A")	Item	
	Sub - Total		R
	Carried to Master Bills of Quantity Summary		R

ANNEXURE – A
ELECTRICAL ENGINEERING INSTALLATIONS

CLIENT SIOC COMMUNITY DEVELOPMENT TRUST
PROJECT LOW COST HOUSING UNIT - GAMAGARA LOCAL MUNICIPALITY
CONTRACT ELECTRICAL INSTALLATION
BILL NO. 1 (DIBENG - 10 UNITS)

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	R	c
1	<u>ELECTRICAL INSTALLATION</u>					
1.1						
1.1.1	DISTRIBUTION BOARDS - Reseeced 12 mod distribution board					
	Material	each	10			
	Labour	each	10			
1.1.2	<u>EARTH LEAKAGE UNITS (SABS) APPROVED</u>					
	25-63A - 1 POLE + N					
	Material	each	10			
	Labour	each	10			
1.1.3	<u>CIRCUIT BREAKERS (SABS) APPROVED - MCCB</u>					
1.1.3.1	50A, 3kA single pole circuit braker					
	Material	each	10			
	Labour	each	10			
1.1.3.2	40A, 3kA single pole circuit braker					
	Material	each	10			
	Labour	each	10			
1.1.3.4	20A, 3kA single pole circuit braker					
	Material	each	20			
	Labour	each	20			
1.1.3.5	10A, 3kA single pole circuit braker					
	Material	each	10			
	Labour	each	10			
	<u>SURGE ARRESTERS (SABS) APPROVED FOR LOW VOLTAGE POWER SYSTEMS</u>					
	Class 1 - 25kA on 10/350µs impulse - 230/400V					
	Material	each	20			
	Labour	each	20			
Sub-Total for Bill No. 1(Carried to the next page)						
AFN ELECTRICALL SERVICES CC : SCHEDULES OF QUANTITIES						

CLIENT SIOC COMMUNITY DEVELOPMENT TRUST
PROJECT LOW COST HOUSING UNIT - GAMAGARA LOCAL MUNICIPALITY
CONTRACT ELECTRICAL INSTALLATION
BILL NO. 1 (DIBENG - 10 UNITS)

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	R	c
	<i>Brought from previous the page</i>					
1.2	Conduit, Wire ways & Acc Supply and install SABS approved PVC Conduit per meter					
1.2.1	20mm diameter chased into brick walls/ concrete slabs					
	Material	m	500			
	Labour	m	500			
1.2.2	20mm diameter in roof spaces					
	Material	m	500			
	Labour	m	500			
Sub-Total for Bill No. 1(Carried to the next page)						
AFN ELECTRICALL SERVICES CC : SCHEDULES OF QUANTITIES						

CLIENT SIOC COMMUNITY DEVELOPMENT TRUST
PROJECT LOW COST HOUSING UNIT - GAMAGARA LOCAL MUNICIPALITY
CONTRACT ELECTRICAL INSTALLATION
BILL NO. 1 (DIBENG - 10 UNITS)

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	R	c
	<i>Brought from previous the page</i>					
1.3	<u>Steel outlet boxes 1, 2 & 3 or 4 way</u>					
1.3.1	50mm round					
	Material	No	70			
	Labour	No	70			
1.4	<u>Basal Conduit Outlet boxes</u>					
	NOTE: Outlets are measured to size only and NOT to the number of ways					
1.4.1	100mm x 50mm x 50mm deep including blank covers					
	Material	No	50			
	Labour	No	50			
1.4.2	100mm x 100mm x 50mm deep					
	Material	No	60			
	Labour	No	60			
1.5	<u>Switch Socket Outlets and Isolators</u>					
1.5.1	16A, 3-pin double SSO flush mounted in 100mm x 100mm x 50mm deep outlet box					
	Material	No	50			
	Labour	No	50			
1.5.2	60A DP Isolator mounted in 100mm x 100 mm x 50 mm deep outlet box					
	Material	No	10			
	Labour	No	10			
Sub-Total for Bill No. 1(Carried to the next page)						
AFN ELECTRICAL SERVICES CC : SCHEDULES OF QUANTITIES						

CLIENT SIOC COMMUNITY DEVELOPMENT TRUST
 PROJECT LOW COST HOUSING UNIT - GAMAGARA LOCAL MUNICIPALITY
 CONTRACT ELECTRICAL INSTALLATION
 BILL NO. 1 (DIBENG - 10 UNITS)

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	R	c
1.6	<u>Brought from previous the page</u> <u>Light Switches and Isolators</u>					
1.6.1	16A, 1 lever, 1-way light switch mounted in 100mm x 50mm x 50mm deep outlet box					
	Material	No	20			
	Labour	No	20			
1.6.2	As 1.6.1 but 2 liver					
	Material	No	30			
	Labour	No	30			
1.7	<u>PVC Insulated Copper Wiring</u>					
1.7.1	2.5mm ² for SSO outlets and A/C outlets					
	Material	m	1000			
	Labour	m	1000			
1.7.2	1,5mm ² for lighting					
	Material	m	2000			
	Labour	m	2000			
1.8	<u>Supply, deliver and install in conduits</u> <u>the following bare copper earth wire</u>					
1.8.1	1,5mm ²					
	Material	m	1000			
	Labour	m	1000			
Sub-Total for Bill No. 1(Carried to the next page)						
AFN ELECTRICALL SERVICES CC : SCHEDULES OF QUANTITIES						

CLIENT SIOC COMMUNITY DEVELOPMENT TRUST
 PROJECT LOW COST HOUSING UNIT - GAMAGARA LOCAL MUNICIPALITY
 CONTRACT ELECTRICAL INSTALLATION
 BILL NO. 1 (DIBENG - 10 UNITS)

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	R	c
	<i>Brought from previous the page</i>					
1.90	<u>Luminaires</u>					
1.9.1	Black bulkhead luminaire - IP65 - 266mm - round complete with 2 x 18W Compact Fluorescent Lamps (SABS approved)					
	Supply	No	80			
	Labour	No	80			
1.10	<u>EXCAVATIONS</u>					
	Excavate cable trench 750mm deep by 350mm wide inclusive of backfilling and compacting					
1.10.1	Soft soil	m3	39.50			
1.10.2	Soft rock	m3	19.60			
1.10.3	Hard rock	m3	19.60			
1.11	<u>Supply, delivery and installation of the following copper cables laid trenches and drawn through sleeves</u>					
1.11.1	10mm ² 3-core PVC SWA PVC					
	Material	m	300			
	Labour	m	300			
1.12	Application for the relocation of the existing point of supply, to the temporary accommodation and back to the new structure. (PROVISIONAL SUM)	Sum	10		R	50 000.00
1.13	Solar Geysers					
	Material		10			
	Labour		10			
1.14	<u>Test and Commission the complete installation (Temporary and permanents houses)</u>	Sum	10			
Sub-Total for Bill No. 1(Carried to the next page)						
AFN ELECTRICAL SERVICES CC : SCHEDULES OF QUANTITIES						

SECTION C

INFILL HOUSING OLIFANTSHOEK X 70 UNITS

Item No	Quantity	Amount
<p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></p> <p><u>Disclaimer</u></p> <p>The JBCC Series 2000 Principal Building Agreement (code: 2101 July 2007 edition 5.0 reprint 1) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The JBCC Principal Building Agreement Contract Data EC and the JBCC Principal Building Agreement Contract Data CE form an integral part of this agreement</p> <p>The ASAQS Preliminaries (November 2007 edition) published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities</p> <p>Contractors are referred to the abovementioned documents for the full intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this agreement such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the abovementioned documents</p> <p>Where any item is not relevant to this specific agreement such item is marked N/A, signifying "not applicable"</p> <p><u>PREAMBLES FOR TRADES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p>Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles</p>		
<p style="text-align: right;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>	R	

	Brought Forward	R
<p>The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles</p>		
<p><u>PRICING OF PRELIMINARIES</u></p>		
<p>Should the contractor select Option A in terms of subclause 3.2.1 in the Contract Data - Contractor to Employer (CE) for the purpose of adjustment of these preliminaries, the amount entered into the amount column in these preliminaries is to be divided into one or more of the three categories provided namely Fixed (F), Value Related (V) and Time Related (T)</p>		
<p><u>SECTION A - PRINCIPAL BUILDING AGREEMENT</u></p>		
<p><u>Definitions (A1)</u></p>		
1	<p>Clause 1.0 - Definitions and interpretation</p> <p>The measuring system used for the preparation of the bills of quantities is the Standard System of Measuring Building Work (sixth edition, revised 1999) published by the Association of South African Quantity Surveyors [1.1]</p> <p>F:..... V:..... T:.....</p>	Item
<p><u>Objective and preparations (A2 - A14)</u></p>		
2	<p>Clause 2.0 - Offer acceptance and performance obligations</p> <p>F:..... V:..... T:.....</p>	Item
3	<p>Clause 3.0 - Documents</p> <p>Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT) [3.5]</p> <p>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 [3.9]</p> <p>F:..... V:..... T:.....</p>	Item
		Carried Forward
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>		R

Brought Forward

R

4 Clause 4.0 - Design responsibility
 F:..... V:..... T:.....

Item

5 Clause 5.0 - Employer's agents
 F:..... V:..... T:.....

Item

6 Clause 6.0 - Contractor's site representative
 F:..... V:..... T:.....

Item

7 Clause 7.0 - Compliance with laws and regulations

Without limiting the generality of the provisions of clause 7.0, the **contractor's** attention is drawn to the provisions of the Construction Regulations, 2014 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 reasonable provisions of the aforementioned health and safety specifications [7.1]

The **contractor** shall allow for and pay any levies required by the National Home Builders Registration Council (NHBRC). The **contractor** warrants that he is registered and will maintain registration with the NHBRC for the duration of this agreement [7.1]

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

Item

8 Clause 8.0 - Works risk
 F:..... V:..... T:.....

Item

9 Clause 9.0 - Indemnities
 F:..... V:..... T:.....

Item

10 Clause 10.0 - General insurances
 F:..... V:..... T:.....

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

11 Clause 11.0 - Special insurances
 F:..... V:..... T:.....

Item

12 Clause 12.0 - Effecting insurances
 F:..... V:..... T:.....

Item

13 Clause 13.0 - Assignment
 F:..... V:..... T:.....

Item

14 Clause 14.0 - Security
 F:..... V:..... T:.....

Item

Execution (A15 - A23)

15 Clause 15.0 - Preparation for and execution of the works

User Note

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

Item

16 Clause 16.0 - Site and access

The contractor shall work within the stand for each housing units as idicated on the Arhitectural Drawings [16.1]

The contractor shall make sure that existing toilets, electrical installations are kept in good working order and the diversion of services to the new permanent housing units are done without inconveniencing the current occupants taking into account current building regulations health and saftey specifications

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

Item

17 Clause 17.0 - **Contract instructions**
 F:..... V:..... T:.....

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

18 Clause 18.0 - Setting out of the works

The **contractor** shall notify the **principal agent** if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments [18.1].

F: V: T:

Item

19 Clause 19.0 - Temporary works and plant

Clause 19.1.1 - Enclosure of the works
 Clause 19.1.2 - Office accommodation
 Clause 19.2 - Advertising rights and notice boards

F: V: T:

Item

20 Clause 20.0 - **Nominated subcontractors**

Refer to the provisions on general attendance hereinafter

F: V: T:

Item

21 Clause 21.0 - **Selected subcontractors**

General attendance of **n/s subcontractors** for pricing by the **contractor** shall be in accordance with the **n/s agreement**. Notwithstanding this provision, general attendance shall be deemed to include for the **contractor** to provide free of charge to any n/s subcontractor such scaffolding as may reasonably be required by such **n/s subcontractor** for the execution of the relevant subcontract work

F: V: T:

Item

22 Clause 22.0 - Employer's direct contractors

F: V: T:

Item

23 Clause 23.0 - Contractor's domestic subcontractors

F: V: T:

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

Completion (A24 - A30)

24 Clause 24.0 - **Practical completion**
 F:..... V:..... T:.....

Item

25 Clause 25.0 - **Works completion**
 F:..... V:..... T:.....

Item

26 Clause 26.0 - Final completion
 F:..... V:..... T:.....

Item

27 Clause 27.0 - **Latent defects** liability period
 F:..... V:..... T:.....

Item

28 Clause 28.0 - Sectional completion **N/A**
 F:..... V:..... T:.....

Item

29 Clause 29.0 - Revision of date for **practical completion**
 The removal and replacement of materials and/or workmanship which do not conform to specification or the **contract drawings** shall not constitute grounds for the extension of the **construction period** nor for the adjustment of the **contract value** (Clause 29.3)
 F:..... V:..... T:.....

Item

30 Clause 30.0 - Penalty for late or non-completion
 F:..... V:..... T:.....

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

Payment (A31 - A35)

31 Clause 31.0 - Interim payment

The inclusion of **materials and goods** stored off **site** in the amount authorised for payment in terms of clause 31.4 shall be at the sole discretion of the **principal agent** and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank. Clause 31.6.5 is therefore not applicable [31.4.2, 31.6.5]

Materials and goods stored off **site** shall not be included in the amount authorised for payment [31.6.5]

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

Item

32 Clause 32.0 - Adjustment to the **contract** value

All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the **contractor** [32.13]

Where prices are submitted by the **contractor** or **n/s subcontractor** during the progress of the **works** in respect of **contract instructions** or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim **payment certificate**, there is to be no presumption of acceptance. Should the **principal agent** wish to accept any such prices prior to the issue of the **certificate of final completion**, it shall be in writing

The **contractor** shall not receive any mark-up for overheads and profit on any omission of tenant installation work or tenant installation work by others. Claims for loss or profit shall not be entertained [32.2]

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

Item

33 Clause 33.0 - Recovery of expense and loss

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

Item

34 Clause 34.0 - Final account and final payment

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

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

35 Clause 35.0 - Payment to other parties
 F:..... V:..... T:.....

Item

Termination (A36 - A39)

36 Clause 36.0 - Termination by **employer** - **contractor's** default
 F:..... V:..... T:.....

Item

37 Clause 37.0 - Termination by **employer** - loss and damage
 F:..... V:..... T:.....

Item

38 Clause 38.0 - Termination by **contractor** - **employer's** default
 F:..... V:..... T:.....

Item

39 Clause 39.0 - Termination - cessation of the **works**
 F:..... V:..... T:.....

Item

Dispute (A40)

40 Clause 40.0 - Settlement of disputes
 F:..... V:..... T:.....

Item

Contract variables (A41 - A42)

41 Clause 41.0 - Post tender provisions

 The **contractor** is to complete before submission of his tender the **JBCC** Principal Building Agreement **Contract Data CE**
 F:..... V:..... T:.....

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

42 Clause 42.0 - Contractual agreement

The required information of the contracting **parties** and the amount of the accepted **contract sum** shall be inserted in the **agreement** for signature of the agreement by the **parties**

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

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

SECTION B - PRELIMINARIES

Definitions and interpretation (B1)

43 Clause 1.0 - Definitions and interpretation

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

Item

Documents (B2)

44 Clause 2.1 - Checking of documents

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

Item

45 Clause 2.2 - Provisional **bills of quantities**

These **bills of quantities** are in multiple procurement format ie earthworks, plumbing and general and external works - are provisionally measured and the subsequent trades are **budgetary allowances** and/or selected/nominated subcontract amounts

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

Item

46 Clause 2.3 - Availability of construction documentation

The **budgetary allowances** and selected nominated/subcontract amounts allocated for subsequent trades included in this **agreement** will be separately procured, based on multiple procurement of selected/nominated subcontractors during the **construction period**

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

Item

Previous work and adjoining properties (B3)

47 Clause 3.1 - Previous work - dimensional accuracy

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

Item

48 Clause 3.2 - Previous work - defects

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

Item

49 Clause 3.3 - Inspection of adjoining properties

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

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

Samples, shop drawings and manufacturer's instructions (B4)

50 Clause 4.1 - Samples of materials
 F:..... V:..... T:.....

Item

51 Clause 4.2 - Workmanship samples
 F:..... V:..... T:.....

Item

52 Clause 4.3 - Shop drawings
 F:..... V:..... T:.....

Item

53 Clause 4.4 - Compliance with manufacturer's instructions
 F:..... V:..... T:.....

Item

Deposits and fees (B5)

54 Clause 5.1 - Deposits and fees
 F:..... V:..... T:.....

Item

Temporary services (B6)

55 Clause 6.1 - Water
 F:..... V:..... T:.....

Item

56 Clause 6.2 - Electricity
 F:..... V:..... T:.....

Item

57 Clause 6.3 - Telecommunication facilities
 F:..... V:..... T:.....

Item

58 Clause 6.4 - Ablution facilities
 F:..... V:..... T:.....

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

Prime cost amounts (B7)

59 Clause 7.1 - Responsibility for **prime cost amounts**

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

Item

Special attendance on n/s subcontractors (B8)

60 Clause 8.1 - Special attendance

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

Item

General (B9)

61 Clause 9.1 - Protection of the works

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

Item

62 Clause 9.2 - Protection/isolation of existing/sectionally occupied **works**

Existing ablution on each stand to be used by the residents for the duration of the project

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

Item

63 Clause 9.3 - Security of the **works**

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

Item

64 Clause 9.4 - Notice before covering work

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

Item

65 Clause 9.5 - Disturbance

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

Item

66 Clause 9.6 - Environmental disturbance

The **employer** has prepared an environmental management plan (EMP) (Refer to Annexure for a copy of the relevant plan). The **contractor** shall price opposite this item for compliance with all the requirements of such emp

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

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

		Brought Forward	R
67	Clause 9.7 - Works cleaning and clearing F:..... V:..... T:.....		Item
68	Clause 9.8 - Vermin F:..... V:..... T:.....		Item
69	Clause 9.9 - Overhand work F:..... V:..... T:.....		Item
<u>Schedule of variables (B10)</u>			
Information necessary for elections and completion of those clauses contained in the 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			
10.1 -	Provisional bills of quantities [clause 2.2] The quantities are provisional	No	
10.2 -	Availability of construction documentation [clause 2.3] Construction documentation is complete	Yes	
10.3 -	Previous work - dimensional accuracy [clause 3.1]		
10.4 -	Previous work - defects [clause 3.2]		
10.5 -	Inspection of adjoining properties [clause 3.3]		
10.6 -	Water [clause 7.2]		
	Option A (by contractor)	no	
	Option B (by employer - free of charge)	no	
	Option C (by employer - metered)	yes	
10.7 -	Electricity [clause 7.3]		
	Option A (by contractor)	no	
	Option B (by employer - free of charge)	no	
	Option C (by employer - metered)	yes	
		Carried Forward	R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries			

	Brought Forward	R
10.8 - Telecommunications [clause 7.4]		
Telephone	<i>no</i>	
Facsimile	<i>no</i>	
E-mail	<i>no</i>	
10.9 - Ablution facilities [clause 7.5]		
Option A (by contractor)	<i>yes</i>	
Option B (by employer)	<i>no</i>	
10.10 - Protection of the works [clause 9.1]		
10.11 - Protection/isolation of existing/sectionally occupied works [clause 9.2]		
Protection/isolation is required	Yes	
10.12 - Disturbance [clause 9.5]		
10.13 - Environmental disturbance [clause 9.6]		
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries	Carried Forward	R

Brought Forward

R

SECTION C - SPECIFIC PRELIMINARIES

Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item

70 **C1.0 TEMPORARY PARKHOMES ACCOMODATION**

Provision of Temporary Park Homes for the accomodation of residence occupying current RDP houses for the duration of the construction works and to comply with required manufactures saftey standards and specifications

Fixed: _____ Value related: _____ Time related: _____

Item

71 **C2.0 CONTRACT DRAWINGS**

The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the **works** and the manner in which they are to be executed

Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the **principal agent**

Fixed: _____ Value related: _____ Time related: _____

Item

72 **C3.0 GENERAL PREAMBLES**

For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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

Fixed: _____ Value related: _____ Time related: _____

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Brought Forward

R

73 **C4.0 TRADE NAMES**

Wherever a trade name for any product has been described in the **bills of quantities / lump sum document**, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the **principal agent** being obtained prior to the closing date for submission of tenders

If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for

Fixed: _____ Value related: _____ Time related: _____

Item

74 **C10.0 HIV/AIDS AWARENESS**

It is required of the **contractor** to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities / lump sum document**. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

The **contractor** must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

C10.1 AWARENESS CHAMPION

Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification

Fixed: _____ Value related: _____ Time related: _____

Item

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

	Brought Forward	R	
C10.2 AWARENESS WORKSHOPS			
<p>Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification</p>			
<p>Fixed: _____ Value related: _____ Time related: _____</p>			
		Item	
C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.			
<p>Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p>			
<p>Fixed: _____ Value related: _____ Time related: _____</p>			
		Item	
C10.4 ACCESS TO CONDOMS			
<p>Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p>			
<p>Fixed: _____ Value related: _____ Time related: _____</p>			
		Item	
C10.5 MONITORING			
<p>Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification</p>			
<p>Fixed: _____ Value related: _____ Time related: _____</p>			
		Item	
		Carried Forward	R
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>			

Brought Forward

R

75 **C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT**

The **contractor** shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)

It is required of the **contractor** to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities / lump sum document**

The **contractor** must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained

Notwithstanding any clause to the contrary regarding Occupational Health and Safety Act CONTRACT DATA the **contractor** shall provide a health and safety plan to the **employer** on the date of taking **possession** of the **site**

Fixed:_____ Value related:_____ Time related:_____

Item

76 **C12.0 SECURITY CLEARANCE BY N/A**

Notwithstanding anything to the contrary contained in clauses C5 to C8 herein the **Contractor** must make allowance for NIA clearance

All personnel, workmen, etc. of the **contractor** and **subcontractors** who will be engaged on **site** will be subject to NIA security clearance before taking **possession** of the **site**

No persons not having NIA security clearance shall be allowed on **site**

All new personnel appointed during the **construction period** will also be subject to the same requirements

Fixed:_____ Value related:_____ Time related:_____

Item

Carried to Final Summary

R

Section No. 1
 PRELIMINARIES AND GENERAL
 Bill No. 1
 Preliminaries

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 1</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 70 stands</p> <p><u>DESCRIPTIONS</u></p> <p>The contractor is referred to the successive sections and bills for preambles and full descriptions of materials and items not described in this bill which will apply equally to the work in this bill unless otherwise described</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>Use "assumed to be" if no trial holes, soils investigation, etc. have been carried out - discuss with engineer Use "Trial holes indicate that" where the ground has been investigated by means of trial holes</p> <p>The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "soft rock" or "hard rock"</p> <p>The nature of the ground is assumed to be gravel, therefore "earth", but possibly interspersed with "soft rock" or "hard rock"</p>			
<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDING WORKS Bill No. 1 Earthworks</p>		R	

<p style="text-align: center;">Brought Forward</p> <p>The nature of the ground is assumed to be silty clay with loose river boulders varying in size up to approximately 450mm diameter, all of which will be deemed as "earth", but possibly interspersed with "hard rock"</p> <p>A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"</p> <p>Trial holes indicate that the nature of the ground is silty clay to a depth of approximately 500mm with fine to medium loose sandy material below, therefore "earth"</p> <p><u>Subterranean water</u></p> <p>No subterranean water is expected</p> <p><u>Carting away of excavated material</u></p> <p>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</p> <p><u>Filling</u></p> <p>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</p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 BUILDING WORKS Bill No. 1 Earthworks</p>		R	

Brought Forward			R	
<u>DEMOLITIONS, ETC.</u>				
<u>REMOVAL OF EXISTING WORK</u>				
<u>Taking down and removing roofs</u>				
1	Removal and Safe Disposal of Asbestos cement roof sheet big six roof structure and disposal of material in accordance with the OHS act 1993,act.no 85 Asbestos regulation of feb 2002			
	A: 4060	m2	4 060	
<u>Demolishing and removing</u>				
2	Single storey "RDP" building with flat roof approximatley 58m2 on plan and 2.5m high overall, comprising reinforced concrete surface bed,foundations, external walls and internal walls (asbestos roof removal elsewhere)			
	A: 70	No	70	
<u>FOUNDATIONS</u>				
<u>EXCAVATION, FILLING, ETC. OTHER THAN BULK</u>				
<u>Excavation in earth not exceeding 2m deep, for</u>				
3	Raft foundations			
	A: 2598	m3	2 598	
4	Thickening under surface beds etc			
	A: 97	m3	97	
<u>Extra over bulk excavations in earth for excavation in</u>				
5	Soft rock			
	A: 133	m3	133	
6	Hard rock			
	A: 260	m3	260	
Carried Forward			R	
Section No. 2 BUILDING WORKS Bill No. 1 Earthworks				

Brought Forward			R
<u>Extra over all excavations for carting away</u>			
7	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor A: 2765	m3	2 765
<u>Risk of collapse of excavations, to</u>			
8	Sides of trench and hole excavations not exceeding 1,5m deep A: 1491	m2	1 491
<u>Keeping excavations free of water</u>			
9	Keeping excavations free of water other than subterranean water		Item
<u>FILLING, ETC.</u>			
<u>G6 filling material supplied by the contractor, compacted to 95% Mod AASHTO density at 2% OMC in 150mm layers</u>			
10	Under floors, steps, pavings, etc A: 519	m3	519
<u>G6 filling material supplied by the contractor, compacted to 93% Mod AASHTO density at 2% OMC in 150mm layers</u>			
11	Under floors, steps, pavings, etc A: 1038	m3	1 038
<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 95% Mod AASHTO density A: 3458	m2	3 458
<u>Prescribed density tests on filling</u>			
13	"Modified AASHTO Density" test A: 350	No	350
<u>SOIL POISONING</u>			
Carried Forward			R
Section No. 2 BUILDING WORKS Bill No. 1 Earthworks			

Brought Forward			R	
<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 A: 3458	m2	3 458	
15	To bottoms and sides of trenches etc A: 1260	m2	1 260	
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>30MPa/19mm concrete, in</u>				
16	Strip footings A: 109	m3	109	
17	Ground beams A: 378	m3	378	
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
<u>Rough formwork to sides, of</u>				
18	Beams A: 1193	m2	1 193	
19	Edges, risers, ends and reveals not exceeding 300mm high or wide A: 1988	m	1 988	
<u>REINFORCEMENT</u>				
<u>Mild steel reinforcement to structural concrete work</u>				
20	8mm Diameter bars A: 9.10	t	9.10	
Carried Forward			R	
Section No. 2 BUILDING WORKS Bill No. 1 Earthworks				

		Brought Forward		R	
		<u>High tensile steel reinforcement to structural concrete work</u>			
21	12mm Diameter bars A: 13.86	t	13.86		
		Carried Forward to Summary of Section No. 2		R	
Section No. 2 BUILDING WORKS Bill No. 1 Earthworks					

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 70 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cost of tests</u></p> <p>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)</p> <p><u>Formwork</u></p> <p>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"</p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 BUILDING WORKS Bill No. 2 Concrete, Formwork and Reinforcement</p>			

Brought Forward				R
<u>Equal or Approved items Descriptions</u>				
Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required				
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>15MPa/19mm concrete, in</u>				
1	1000mm wide Aprons slabs shaped and compacted to a minimum 1-100 fall away from the building A: 227	m3	227	
2	Non-slip wood float finish to top of aprons to falls A: 2268	m2	2 268	
<u>Expansion Joints</u>				
3	10mm Bitumen impregnated softboard expansion joint between concrete aprons and brickwall 100mm high A: 1988	m	1 988	
<u>Rough formwork to sides, of</u>				
4	Edges, risers, ends and reveals not exceeding 300mm high or wide A: 2548	m	2 548	
<u>TEST CUBES</u>				
5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional) A: 350	No	350	
<u>REINFORCED CONCRETE</u>				
Carried Forward				R
Section No. 2 BUILDING WORKS Bill No. 2 Concrete, Formwork and Reinforcement				

Brought Forward			R	
<u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25 MPa at 28 days</u>				
6	Surface beds A: 441	m3	441	
<u>CONCRETE SUNDRIES</u>				
<u>Finishing top surfaces of concrete smooth with a steel trowel, to</u>				
7	Surface beds, slabs, etc A: 2940	m2	2 940	
<u>Fabric reinforcement</u>				
8	Type 193 fabric reinforcement in concrete apron slabs. etc with 300mm wide side and end laps A: 2940	m2	2 940	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
BUILDING WORKS				
Bill No. 2				
Concrete, Formwork and Reinforcement				

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 3</u></p> <p><u>PRECAST CONCRETE</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 70 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p>Prices are to include for building into brick walls as single units or combinations of two or more units and for bedding solid all round in mortar and pointing on both sides with square recessed joints</p> <p>Door frames are to be checked before delivery for structural integrity and quality assurance. Prefabricated material not meeting the required quality standards will be rejected</p> <p><u>PREFABICATED DOOR FRAME</u></p> <p><u>Betecrete polycrrete door frame fitted to the centre of brickwalls</u></p>			
1	<p>Frame for door 813 x 2032mm high A: 350</p>	No 350		
	Carried Forward		R	
	<p>Section No. 2 BUILDING WORKS Bill No. 3 Precast concrete</p>			

Brought Forward				R
<u>PRECAST CONCRETE DOOR SILLS, ETC.</u>				
<u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u>				
2	Betecrete polycrete door sills weathered on top for a width of 110mm along front edge bedded to external door openings A: 113	m	113	
<u>SUNDRIES</u>				
3	Standard concrete gulley including uPVC underground head and 110mm grate A: 70	No	70	
Carried Forward to Summary of Section No. 2				R
Section No. 2 BUILDING WORKS Bill No. 3 Precast concrete				

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 4</u></p> <p><u>MASONRY</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 70 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p><u>Bagged and sealed walls</u></p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats stable bitumen emulsion waterproofing coating</p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 BUILDING WORKS Bill No. 4 Masonry (local package.1)</p>			

Brought Forward				R
<u>BRICKWORK IN SUPERSTRUCTURE</u>				
<u>Brickwork of NFP bricks (7Mpa compressive strength) bricks in class II mortar, in</u>				
1	Half brick walls A: 2589	m2	2 589	
2	One brick walls A: 4681	m2	4 681	
3	One brick walls in beamfilling A: 676	m2	676	
<u>Brickwork reinforcement</u>				
4	75mm Wide reinforcement built in horizontally A: 10153	m	10 153	
5	150mm Wide reinforcement built in horizontally A: 20580	m	20 580	
<u>Galvanised wire ties etc</u>				
6	4mm Diameter roof tie 2m girth bent double, with one end built into brickwork and other end fixed to timber A: 3640	No	3 640	
<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>				
7	105 x 75mm Lintels in lengths not exceeding 3m A: 2099	m	2 099	
<u>FIBRE-CEMENT WINDOW SILLS</u>				
<u>Natural grey sills in single lengths bedded in class II mortar including metal fixing lugs etc</u>				
8	500 x 180mm Wide sills set sloping and slightly projecting A: 494	m	494	
<u>GRANITE</u>				
Carried Forward				R
Section No. 2 BUILDING WORKS Bill No. 4 Masonry (local package.1)				

	Brought Forward				R
	<u>Granite with polished finish</u>				
9	30mm thick x 600mm wide black engineered granite countertop with square edges on steel support heavy duty wall brackets fixed to partitions, brick walls or concrete including cutting out for sink opening (sink & steel wall bracket measured elsewhere) A: 84	m	84		
10	Extra over for cutting out sink opening A: 70	No	70		
	Carried Forward to Summary of Section No. 2				R
	Section No. 2 BUILDING WORKS Bill No. 4 Masonry (local package.1)				

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 5</u></p> <p><u>WATERPROOFING</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 70 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Waterproofing</u></p> <p>Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p> <p><u>DAMPPROOFING OF WALLS AND FLOORS</u></p>			
<p>Section No. 2 BUILDING WORKS Bill No. 5 Waterproofing</p>	<p>Carried Forward</p>	<p>R</p>	

Brought Forward			R	
<u>One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)</u>				
1	In walls A: 437	m2	437	
2	In walls vertically at reveals A: 393	m2	393	
<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
<u>One layer 160 micron green polyethylene waterproof sheeting sealed at laps with PVC self-adhesive tape</u>				
3	Under surface beds A: 2940	m2	2 940	
<u>SEALING STRIPS, JOINT SEALANTS, ETC.</u>				
<u>Clear silicone sealant</u>				
4	10 x 10 mm in joints between frames and walls A: 1786	m	1 786	
5	Between plastered walls and sanitary fittings A: 350	m	350	
Carried Forward to Summary of Section No. 2				R
Section No. 2 BUILDING WORKS Bill No. 5 Waterproofing				

Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>ROOF COVERINGS, ETC.</u>			
	<u>KEY LOCATIONS</u>			
	A: Erf 70 stands			
	<u>PREAMBLES</u>			
	For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Equal or Approved items Descriptions</u>			
	Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm interlocking IBR profile steel sheeting in single lengths and accessories, with approved pre painted finish on one side, fixed to and including timber purlin</u>			
1	Roof covering with pitches not exceeding 25 degrees to timber purlins			
	A: 4761	m2	4 761	
2	Ridge cappings			
	A: 140	m	140	
3	Hip cappings			
	A: 1474	m	1 474	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	BUILDING WORKS			
	Bill No. 6			
	Roof Coverings, etc			

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 7</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 70 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing</u></p> <p>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</p> <p>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</p> <p><u>Joinery</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, rails, etc</p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>ROOFS, ETC.</u></p>			
Carried Forward		R	
<p>Section No. 2 BUILDING WORKS Bill No. 7 Carpentry and Joinery (local package.2- doors&kitchen)</p>			

	Brought Forward				R
	<u>Sawn softwood grade 6</u>				
1	38 x 114mm Wall plates bolted A: 2128	m	2 128		
2	Extra over for 50 x 76mm tilting fillets at eaves A: 2268	m	2 268		
	<u>Sundries</u>				
3	Two coats creosote on sawn timbers A: 579	m2	579		
	<u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	References given in descriptions refer to the respective types of trusses detailed on the architect's/engineer's drawings annexed to these bills of quantities (accompanying these bills of quantities for tender purposes)				
	Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences				
	<u>Sawn softwood</u>				
4	Prefabricated hip roof construction of hip roof trusses in step down system including hip ends size 9.1 x 7.1m x 1.25mm high all round overall consisting of rafters, tie beams, jack rafters, bracing with fixing accessories by a certified roofing specialist in accordance with the SANS with valid certificate of competence to receive roof covering (wall plates measured elsewhere)			Item	
	A: 70.00				
	<u>Fibre-cement fascias and barge boards</u>				
5	12 x 225mm Grooved fascias and barge boards, including galvanised steel H-profile joiners A: 2268	m	2 268		
	Carried Forward				R
	Section No. 2 BUILDING WORKS Bill No. 7 Carpentry and Joinery (local package.2- doors&kitchen)				

Brought Forward				R
<u>DOORS, ETC.</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Medium duty exterior hardwood door hung to polycrrete door frames</u>				
6	PD8 Plypanel exterior two panel hardwood door 813 x 2032mm high A: 70	No	70	
7	PD1 FLB open back ply exterior panel hardwood door 813 x 2032mm high A: 70	No	70	
<u>Sapele interior light hollowcore flushdoor (Code:91104) manufactured in accordance with SANS 545:1989 hung to polycrrete door frames</u>				
8	40mm Door 813 x 2032mm high A: 210	No	210	
<u>CUPBOARDS TO KITCHENS, BEDROOMS, ETC.</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>General</u>				
<p>The following cupboard fittings have been given as complete units i.e. the components of the units have not been given separately. Descriptions of such units shall, therefore, be deemed to include all components, assembling, housing, notching, glueing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes, etc</p> <p>Prices are to include for all necessary filler pieces against walls etc</p>				
Carried Forward				R
Section No. 2 BUILDING WORKS Bill No. 7 Carpentry and Joinery (local package.2- doors&kitchen)				

	Brought Forward				R
9	Floor cupboard type White melamine or similar approved 1200 x 560 x 760mm high with top, sides, bottom, division, shelves, back and double hinged doors, dividing framework fitted in position and complete (handles measured elsewhere) A: 70	No	70		
10	Sink cupboard type 900 x 560 x 760mm high with sides, bottom, divisions, shelf, back and double hinged doors (sink elsewhere) A: 70	No	70		
Carried Forward to Summary of Section No. 2					R
Section No. 2 BUILDING WORKS Bill No. 7 Carpentry and Joinery (local package.2- doors&kitchen)					

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 8</u></p> <p><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 70 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing</u></p> <p>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</p> <p><u>Ceilings</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>CEILING TIMBERS, BEADS, INSULATION, ETC.</u></p>			
<p>Carried Forward</p> <p>Section No. 2 BUILDING WORKS Bill No. 8 Ceilings, Partitions and Access Flooring (Local package.3)</p>		R	

Brought Forward			R
<u>Insulation</u>			
1	135mm Insulation in blanket form lapped not less than 50mm along all edges and laid on top of brandering between roof timbers etc A: 2940	m2	2 940
<u>NAILED-UP CEILINGS</u>			
<u>6mm "Cladit" fibre cement plain ceiling board with H-profile galvanised steel pre painted jointing strips</u>			
2	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres and cross brandering at 450mm centres A: 2940	m2	2 940
3	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around A: 70	No	70
<u>Standard nutec cornices</u>			
4	75 mm Coved cornices A: 3570	m	3 570
Carried Forward to Summary of Section No. 2			R
Section No. 2 BUILDING WORKS Bill No. 8 Ceilings, Partitions and Access Flooring (Local package.3)			

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 9</u></p> <p><u>IRONMONGERY</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 70 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>Finishes to ironmongery</u></p> <p>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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 BUILDING WORKS Bill No. 9 Ironmongery (Local package.4)</p>			

Brought Forward					
		R			
<u>Equal or Approved items Descriptions</u>					
Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required					
<u>LOCKS</u>					
1	Ironbrass plated padlock fixed to security gates A: 140	No	140		
<u>Manufactured by "Solid" or similar approved</u>					
2	Two-lever lockset LA953/2L (SKL) with chrome plated finish including handles with striking plate fixed to concrete frames A: 210	No	210		
3	Three-lever lockset LA 953/3L with chrome plated finish including handles with striking plate fixed to concrete frames A: 140	No	140		
<u>SUNDRIES</u>					
4	Aluminium door code: (AL8730AS) stoper with anodised silver finish plugged. A: 140	No	140		
5	Betcrete polycrrete door sill A: 140	No	140		
<u>BATHROOM FITTINGS</u>					
6	CP Towel ring plugged A: 70	No	70		
Carried Forward				R	
Section No. 2 BUILDING WORKS Bill No. 9 Ironmongery (Local package.4)					

		Brought Forward		R	
7	CP paper ring holder plugged A: 70	No	70		
<u>HANDLES</u>					
<u>Cupboard handles</u>					
8	96mm curved line black nickel "viking" cupboard handles A: 280	No	280		
<u>PELMETS AND CURTAIN TRACKS</u>					
<u>Curtain Tracks</u>					
9	Single curtain tracks for soffit fixing including 10 roller gliders per metre, stops, two end caps, brackets, etc plugged into walls above windows A: 560	m	560		
Carried Forward to Summary of Section No. 2				R	
Section No. 2					
BUILDING WORKS					
Bill No. 9					
Ironmongery (Local package.4)					

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 10</u></p> <p><u>METALWORK</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 70 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions of bolts, anchors, etc</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>GALVANISED STEEL GATES SCREENS, ETC.</u></p> <p><u>Econo security gate</u></p> <p>1 Single security gate 980 x 2032mm high approved powder coated mild steel square tubing frame complete with hinges and rounded welded bar inserts with shoot bolt mechanism to receive padlocks (padlock measured elsewhere)</p> <p style="margin-left: 40px;">A: 140</p>			
	No		
	140		
	Carried Forward		R
<p>Section No. 2 BUILDING WORKS Bill No. 10 Metalwork (Local Package.5)</p>			

Brought Forward					
				R	
<u>GALVANISED STEEL WINDOWS, DOORS, ETC.</u>					
<u>Standard residential windows</u>					
2	Window type NCTX7S 1022 x 949mm high A: 70	No	70		
3	Window type NCTX7S5 1511 x 949mm high A: 70	No	70		
4	Window type TD151 1511 x 1264mm high A: 210	No	210		
Carried Forward to Summary of Section No. 2				R	
Section No. 2 BUILDING WORKS Bill No. 10 Metalwork (Local Package.5)					

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 11</u></p> <p><u>PLASTERING</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 70 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>GRANOLITHIC</u></p> <p><u>Method</u></p> <p>The method to be used shall be either the monolithic method or the bonded method</p> <p><u>Preparation</u></p> <p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic</p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 BUILDING WORKS Bill No. 11 Plastering (Local Package.6)</p>			

Brought Forward				R
Mix				
<p>Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic</p>				
Panels				
<p>Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width</p>				
Equal or Approved items Descriptions				
<p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p>				
GRANOLITHIC				
Untinted granolithic, on concrete				
1	30mm Thick on floors and landings A: 2940	m2	2 940	
INTERNAL PLASTER				
13mm (1:5) Cement plaster steel trowelled on brickwork				
2	On walls A: 8996	m2	8 996	
3	On narrow widths A: 384	m2	384	
EXTERNAL PLASTER				
Carried Forward				R
<p>Section No. 2 BUILDING WORKS Bill No. 11 Plastering (Local Package.6)</p>				

Brought Forward				R
<u>13mm (1:5) Cement plaster steel trowelled on brickwork</u>				
4	On walls A: 4967	m2	4 967	
5	On narrow widths A: 272	m2	272	
6	On sides and front top edge of surrounds 220mm girth A: 1366	m	1 366	
Carried Forward to Summary of Section No. 2				R
Section No. 2 BUILDING WORKS Bill No. 11 Plastering (Local Package.6)				

Item No		Quantity	Rate	Amount
	<u>BILL NO. 12</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>KEY LOCATIONS</u>			
	A: Erf 70 stands			
	<u>PREAMBLES</u>			
	For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Equal or Approved items Descriptions</u>			
	Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required			
	<u>RAINWATER DISPOSAL</u>			
	<u>0,6mm Galvanised sheet steel gutters and rainwater pipes</u>			
1	102 x 125mm Roof gutters with beaded front edge A: 2349	m	2 349	
2	100 x 100mm Rainwater pipes with crimp shoe A: 896	m	896	
3	Extra over gutter for angle A: 280	No	280	
4	Extra over gutter for outlet A: 280	No	280	
	Carried Forward			R
	Section No. 2 BUILDING WORKS Bill No. 12 Plumbing & Drainage (Local Package.7)			

	Brought Forward			R	
5	Extra over rainwater pipe for plinth bend A: 280	No	280		
6	Extra over rainwater pipe for eaves offset A: 280	No	280		
	<u>Stainless steel</u>				
7	750 x 400mm Steel sink drop on sink with single end bowl on galvanised steel brackets A: 70	No	70		
	<u>"Thandi"</u>				
8	Courier Basin lavatory basin on universal floor mounted pedestal A: 70	No	70		
9	Low Level "WC suite in a box" comprising pan with double flap plastic seat and matching 9 litre plastic cistern and flushing mechanism A: 70	No	70		
10	1700 x 750mm "Thandi" bath with waste outlet, overflow grating with coupling and pair of handles, bedded in position A: 70	No	70		
	<u>"Vaal"</u>				
	<u>WASTE UNIONS, ETC.</u>				
	<u>"Cobra Watertech"</u>				
11	32mm Basin waste union plug and chain for standard size basin A: 70	No	70		
12	32mm Bath waste union plug and chain for standard size baths A: 70	No	70		
13	40mm sink waste union A: 70	No	70		
	Carried Forward			R	
	Section No. 2 BUILDING WORKS Bill No. 12 Plumbing & Drainage (Local Package.7)				

		Brought Forward			R
	<u>TRAPS, ETC.</u>				
	<u>"PVC"</u>				
14	38 x 40mm plain bath trap A: 70	No	70		
	<u>"Rubber"</u>				
15	32 x 50mm single bowl sink and basin reseal "P" or "S" trap combination A: 140	No	140		
	<u>TAPS, VALVES, ETC.</u>				
16	15mm CP bath pillar taps A: 140	No	140		
17	15mm CP basin pillar taps A: 70	No	70		
18	15mm CP Sink pillar taps A: 70	No	70		
19	15mm CP Angle Valve A: 140	No	140		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC soil and vent pipes</u>				
20	110mm Pipes A: 70	m	70		
21	50mm Pipes A: 630	m	630		
22	50mm Pipes chased into brickwork A: 280	m	280		
	<u>Extra over uPVC soil and vent pipes for fittings</u>				
23	110mm Pan connector A: 70	No	70		
		Carried Forward			R
	Section No. 2 BUILDING WORKS Bill No. 12 Plumbing & Drainage (Local Package.7)				

INFILL HOUSING OLIFANTSHOEK X 70 UNITS
BILLS OF QUANTITIES
SIOC CDT
NC/001/2020/B

		Brought Forward		R	
24	110mm Air vent valve A: 70	No	70		
25	110mm Access Bend A: 70	No	70		
26	50mm Bend A: 210	No	210		
27	50mm Junction A: 280	No	280		
28	50mm Access bend A: 140	No	140		
<u>Testing</u>					
29	Testing waste pipe system		Item		
<u>WATER SUPPLIES</u>					
<u>Class 0 copper pipes with capillary couplings</u>					
30	15mm Pipes A: 770	m	770		
<u>Extra over Class 0 copper pipes for capillary fittings</u>					
31	15mm Fittings A: 1260	No	1 260		
<u>Flexible service pipes</u>					
32	15mm Service pipe 350mm girth A: 280	No	280		
<u>Municipal connection</u>					
33	Provide the sum of R 2000,00 (Two Thousand Rands) for municipal connection		Item		140 000 00
34	Profit		Item		
		Carried Forward		R	
Section No. 2 BUILDING WORKS Bill No. 12 Plumbing & Drainage (Local Package.7)					

	Brought Forward		R	
	<u>Testing</u>			
35	Testing water pipe system	Item		
	<u>AS-BUILT DRAWINGS</u>			
36	Provision of as-built drawings	Item		
Carried Forward to Summary of Section No. 2			R	
Section No. 2 BUILDING WORKS Bill No. 12 Plumbing & Drainage (Local Package.7)				

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 13</u></p> <p><u>GLAZING</u></p> <p><u>KEY LOCATIONS</u></p> <p>A: Erf 70 stands</p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p><u>GLAZING TO STEEL WITH PUTTY</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Float glass</u></p> <p>The term "float glass" is used for monolithic annealed glass</p> <p><u>Equal or Approved items Descriptions</u></p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p><u>GLAZING TO STEEL WITH PUTTY</u></p> <p><u>6mm Clear toughened safety glass</u></p>			
1	<p>Panes exceeding 0,5m2 and not exceeding 2m2 in area A: 500</p>	m2	500	
	<p><u>4mm Obscure glass</u></p>			
2	<p>Panes exceeding 0,5 and not exceeding 2m2 in area A: 68</p>	m2	68	
	Carried Forward		R	
	<p>Section No. 2 BUILDING WORKS Bill No. 13 Glazing (Local Package.8)</p>			

Item No		Quantity	Rate	Amount
	<p>BILL No. 14</p> <p>PAINTWORK</p> <p>KEY LOCATIONS</p> <p>A: Erf 70 stands</p> <p>PREAMBLES</p> <p>For preambles refer to "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyor and 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</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>Equal or Approved items Descriptions</p> <p>Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required</p> <p>ON INTERNAL FLOATED PLASTER SURFACES</p> <p>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</p>			
1	<p>Walls A: 7822</p>	m2	7 822	
	<p>One coat alkali resistant primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint</p>			
2	<p>Walls A: 1404</p>	m2	1 404	
	<p>ON EXTERNAL FLOATED PLASTER SURFACES</p>			
	Carried Forward		R	
	<p>Section No. 2 BUILDING WORKS Bill No. 14 Painting (Local Package.9)</p>			

Brought Forward			R	
<u>One coat alkali resistant primer and two coats PVA emulsion paint for exterior use</u>				
3	Walls A: 4919	m2	4 919	
<u>ON FIBRE-CEMENT BOARD SURFACES</u>				
<u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</u>				
4	Ceilings and cornices A: 2940	m2	2 940	
<u>ON FIBRE-CEMENT BOARD SURFACES</u>				
<u>One coat alkali resistant primer and two coats PVA emulsion paint for exterior use</u>				
5	Fascias and barge boards, including priming metal jointing strips A: 1044	m2	1 044	
<u>ON METAL SURFACES</u>				
<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>				
6	Windows A: 603	m2	603	
7	Eaves gutters A: 775	m2	775	
8	Rainwater downpipes A: 364	m2	364	
<u>ON WOOD SURFACES</u>				
<u>Two coats woodgard interior/exterior Timbavarnish alkyde vanish to exterior wood vanish</u>				
9	Doors A: 1252	m2	1 252	
Carried Forward to Summary of Section No. 2				R
Section No. 2 BUILDING WORKS Bill No. 14 Painting (Local Package.9)				

Bill No		Page No		Amount
	Section No. 2			
	BUILDING WORKS			
	<u>SECTION SUMMARY - BUILDING WORKS</u>			
1	Earthworks	-24-		
2	Concrete, Formwork and Reinforcement	-27-		
3	Precast concrete	-29-		
4	Masonry (local package.1)	-32-		
5	Waterproofing	-34-		
6	Roof Coverings, etc	-35-		
7	Carpentry and Joinery (local package.2- doors&kitchen)	-39-		
8	Ceilings, Partitions and Access Flooring (Local package.3)	-41-		
9	Ironmongery (Local package.4)	-44-		
10	Metalwork (Local Package.5)	-46-		
11	Plastering (Local Package.6)	-49-		
12	Plumbing & Drainage (Local Package.7)	-54-		
13	Glazing (Local Package.8)	-56-		
14	Painting (Local Package.9)	-58-		
	Carried to Final Summary		R	
	Section No. 2			
	BUILDING WORKS			

				R
Brought Forward				
<u>Equal or Approved items Descriptions</u>				
Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required				
<u>Cable Trenches</u>				
Rates for cable trenches to make allowance for risk of collapse of excavations and keeping excavations free from water				
<u>Civil Engineering Works SANS1200</u>				
The rates of the civil engineering works in this section must take into account the South African Bureau of Standards Specifications for Civil Engineering Works as published and approved by the council of the South African Bureau of Standards.				
<u>Cables</u>				
Rates for cables shall make allowance for snaking				
<u>Cable terminations and prescribed running joints</u>				
Rates to make allowance for glands and making off				
<u>High density polyethylene (HDPE) pipes and fittings</u>				
Pipes shall be type IV and of the class specified with "Plasson" or "Alprene" compression fittings				
<u>DEMOLITIONS, ETC.</u>				
<u>Taking down and removing</u>				
1 Existing steel diamond mesh security fence including gates with steel posts and droppers and 45 degree barbed wire overhang approximatley 1.2m high overall and grubbing out bases and remove from site	m	5 530		
Carried Forward				R
Section No. 3 EXTERNAL WORKS Bill No. 1 External Works (Local packages.10)				

Brought Forward			R
<u>SITE CLEARANCE, ETC.</u>			
<u>Site clearance</u>			
2	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	17 010
<u>FENCING</u>			
<u>Galvanised diamond mesh fence with steel standards, droppers and steel pipe posts, stays, gate, etc including galvanised steel bolts, straining eye bolts, etc, site clearance and preparation of ground</u>			
3	Fence 1.8m high of 1.8mm gauge wire thick of 64 x 64 aperture including type "i" profile type standards at not exceeding 3000mm centres with type "T" profile droppers at not exceeding 2000mm centres in between	m	5 530
4	100mm diameter inclined stay 2.4m long, including concrete base	No	560
5	100mm diameter corner post 2.4m long, including concrete base	No	280
6	Double gate of 3.0 x 1.8m high of 76mm diameter framing "diamond mesh" type including hinges, spring latch with catch, etc	No	70
<u>CIVIL ENGINEERING WORKS: SANS 1200</u>			
<u>EARTHWORKS: D#</u>			
<u>8.3.4 Importing of Material</u>			
7	a) Extra over for importation of material from commercial sources or from borrow pits of G6 material in forming and building up two platforms of 300mm thick and compacted at layers not exceeding 150mm thick to 95% Mod ASSHTO as specified by the engineer.	m3	1 103
<u>EARTHWORKS (PIPES TRENCHES): DB</u>			
<u>Excavation: DB# 8.3.2</u>			
Carried Forward			R
Section No. 3 EXTERNAL WORKS Bill No. 1 External Works (Local packages.10)			

	Brought Forward			R
	<u>Excavate in all materials for trenches backfill, compact and disposal of surplus material</u>			
	<u>a) Over 0mm and up to and including 125mm diameter for total trench depth (Water Pipelines):</u>			
8	i) Exceeding 0,0 m but not exceeding 1,0 m	m	2 170	
	<u>a) Over 0mm and up to and including 125mm diameter for total trench depth (Sewer Pipelines):</u>			
9	i) Exceeding 0,0 m but not exceeding 1,0 m	m	1 103	
	<u>Extra over for: DB # 8.3.2b</u>			
10	1) Intermediate Excavations	m3	113	
11	2) Hard Rock Excavations	m3	226	
12	c) Excavate and dispose of unsuitable material from trench bottom (Provisional)	m3	461	
	<u>Existing Services that Intersect or Adjoin a Pipe Trench DB # 8.3.5</u>			
13	a) Services that intersect a trench	No	70	
	<u>MEDIUM-PRESSURE PIPELINES: L#</u>			
	<u>Supply, Lay, and Bed Pipes Complete with Couplings: L# 8.2.1</u>			
14	20mm diameter HDPE pressure pipes	m	2 170	
	<u>Extra over 8.2.1 for the Supplying, Fixing, and Bedding of Valves L# 8.2.3</u>			
15	20mm Stop Ball Valves	No	70	
	<u>Extra over 8.2.1 for the Cutting of the Pipe and the Supplying and Fixing of the Extra Coupling: L# 8.2.4</u>			
16	Med pressure pipelines e.o. for cutting pipe & supply & fix extra couplings	No	70	
	Carried Forward			R
	Section No. 3 EXTERNAL WORKS Bill No. 1 External Works (Local packages.10)			

	Brought Forward			R
	<u>Anchor/Thrust Blocks and Pedestals: L# 8.2.11</u>			
17	20 MPa/19mm Concrete.	m3	70	
	<u>Recover Old Pipeline L# 8.2.8</u>			
18	Existing Pipelines	m	1 470	
	<u>BEDDING (PIPES): LB#</u>			
	<u>Provision of Bedding from Trench Excavation: LB # 8.2.1</u>			
19	b) Selected fill material.	m3	217	
	<u>SEWER: LD#</u>			
	<u>Supply, lay, joint and bed non-pressure PVC pipes and test pipeline: LD # 8.2.1</u>			
20	1) 110 mm diameter PVC pipe	m	1 120	
	<u>Extra-Over item 8.2.1 for specials</u>			
21	1) 110 x 45 Rodding Eye	No	70	
	<u>ERF CONNECTION WATER: LF#</u>			
22	Provide erf connection Complete: LF # 8.2.1	No	70	
	Carried to Final Summary			R
	Section No. 3			
	EXTERNAL WORKS			
	Bill No. 1			
	External Works (Local packages.10)			

Item No		Quantity	Rate	Amount
	<p><u>PROVISIONAL SUMS</u></p> <p><u>BILL NO .1</u></p> <p><u>General</u></p> <p>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</p> <p>Prime cost amounts and provisional sums are net. Prime cost amounts include for delivery to site of all articles concerned</p> <p>Provisional sums are for material and equipment supplied and installed complete by firms of specialists</p> <p><u>Profit</u></p> <p>Where stated, the contractor may allow for profit if required</p> <p><u>General attendance on nominated/selected subcontractors</u></p> <p>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:</p> <ol style="list-style-type: none"> 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 <p><u>Builder's work</u></p> <p>Builder's work in connection with specialist services is given elsewhere in these bills of quantities</p>			
	Carried Forward		R	
	<p>Section No. 4 PROVISIONAL SUMS Bill No. 1 Provisional Sums</p>			

Brought Forward		R	
<u>Equal or Approved items Descriptions</u>			
Items described with known brands shall be deemed similar, equal or approved items in this bills of quantities and shall mean components that meets the required standards of quality as prescribed by the SANS and or approved and prescribed by the Principal Agent, Architect or Engineers as required			
<u>BUDGETARY ALLOWANCES</u>			
<u>Landscaping (Local Package Content.10)</u>			
1	Provide the sum of R 1 600,00 (One Thousand Six Hundred Rands) for landscaping	Item	112 000 00
2	Profit	Item	
3	Attendance	Item	
<u>Community Liaison Officer</u>			
4	Provide the sum for Community Liaison Officer	Item	65 800 00
5	Profit	Item	
6	Attendance	Item	
<u>NHBRC Enrolments</u>			
7	Provide the sum of R 4 500.00 (Four Thousand Five Hundred Rands) for phase NHBRC enrolment	Item	315 000 00
8	Profit	Item	
9	Attendance	Item	
Carried to Final Summary			
Section No. 4 PROVISIONAL SUMS Bill No. 1 Provisional Sums		R	

FINAL SUMMARY

Section No		Page No	Amount
1	PRELIMINARIES AND GENERAL	-18-	
2	BUILDING WORKS	-59-	
3	EXTERNAL WORKS	-64-	
4	PROVISIONAL SUMS	-66-	
	Electrical Engineering Installation Schedule of Quantities Total Brought Forward ("Annexure A")	Item	
	Sub - Total		R
	Carried to Master Bills of Quantity Summary		R

ANNEXURE – A
ELECTRICAL ENGINEERING INSTALLATIONS

CLIENT SIOC COMMUNITY DEVELOPMENT TRUST
 PROJECT LOW COST HOUSING UNIT - GAMAGARA LOCAL MUNICIPALITY
 CONTRACT ELECTRICAL INSTALLATION
 BILL NO. 3 OLIFANTSNEK 70 UNITS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	R c
3	<u>ELECTRICAL INSTALLATION</u>				
3.1					
3.1.1	<u>DISTRIBUTION BOARDS -</u> Reseced 12 mod distribution board				
	Material	each	70		
	Labour	each	70		
3.1.2	<u>EARTH LEAKAGE UNITS (SABS) APPROVED</u>				
	25-63A - 1 POLE + N				
	Material	each	70		
	Labour	each	70		
3.1.3	<u>CIRCUIT BREAKERS (SABS) APPROVED - MCCB</u>				
3.1.3.1	50A, 3kA single pole circuit braker				
	Material	each	70		
	Labour	each	70		
3.1.3.2	40A, 3kA single pole circuit braker				
	Material	each	70		
	Labour	each	70		
3.1.3.4	20A, 3kA single pole circuit braker				
	Material	each	140		
	Labour	each	140		
3.1.3.5	10A, 3kA single pole circuit braker				
	Material	each	70		
	Labour	each	70		
	<u>SURGE ARRESTERS (SABS) APPROVED FOR LOW VOLTAGE POWER SYSTEMS</u>				
	Class 1 - 25kA on 10/350µs impulse - 230/400V				
	Material	each	140		
	Labour	each	140		
	Sub-Total for Bill No. 1(Carried to the next page)				
	AFN ELECTRICALL SERVICES CC : SCHEDULES OF QUANTITIES				

CLIENT SIOC COMMUNITY DEVELOPMENT TRUST
PROJECT LOW COST HOUSING UNIT - GAMAGARA LOCAL MUNICIPALITY
CONTRACT ELECTRICAL INSTALLATION
BILL NO. 3 OLIFANTSNEK 70 UNITS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	R	c	
	<i>Brought from previous the page</i>						
3.2	Conduit, Wire ways & Acc						
	Supply and install SABS approved PVC Conduit per meter						
3.2.1	20mm diameter chased into brick walls/ concrete slabs						
	Material	m	3500				
	Labour	m	3500				
3.2.2	20mm diameter in roof spaces						
	Material	m	3500				
	Labour	m	3500				
	Sub-Total for Bill No. 1(Carried to the next page)						
	AFN ELECTRICALL SERVICES CC : SCHEDULES OF QUANTITIES						

CLIENT SIOC COMMUNITY DEVELOPMENT TRUST
PROJECT LOW COST HOUSING UNIT - GAMAGARA LOCAL MUNICIPALITY
CONTRACT ELECTRICAL INSTALLATION
BILL NO. 3 OLIFANTSNEK 70 UNITS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	R	c
	<i>Brought from previous the page</i>					
3.3	<u>Steel outlet boxes 1, 2 & 3 or 4 way</u>					
3.3.1	50mm round					
	Material	No		490		
	Labour	No		490		
3.4	<u>Basal Conduit Outlet boxes</u>					
	NOTE: Outlets are measured to size only and NOT to the number of ways					
3.4.1	100mm x 50mm x 50mm deep including blank covers					
	Material	No		350		
	Labour	No		350		
3.4.2	100mm x 100mm x 50mm deep					
	Material	No		420		
	Labour	No		420		
3.5	<u>Switch Socket Outlets and Isolators</u>					
3.5.1	16A, 3-pin double SSO flush mounted in 100mm x 100mm x 50mm deep outlet box					
	Material	No		350		
	Labour	No		350		
3.5.2	60A DP Isolator mounted in 100mm x 100 mm x 50 mm deep outlet box					
	Material	No		70		
	Labour	No		70		
Sub-Total for Bill No. 1(Carried to the next page)						
AFN ELECTRICALL SERVICES CC : SCHEDULES OF QUANTITIES						

CLIENT SIOC COMMUNITY DEVELOPMENT TRUST
PROJECT LOW COST HOUSING UNIT - GAMAGARA LOCAL MUNICIPALITY
CONTRACT ELECTRICAL INSTALLATION
BILL NO. 3 OLIFANTSNEK 70 UNITS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	R	c
3.6	<u>Brought from previous the page</u> <u>Light Switches and Isolators</u>					
3.6.1	16A, 1 lever, 1-way light switch mounted in 100mm x 50mm x 50mm deep outlet box					
	Material	No	140			
	Labour	No	140			
3.6.2	As 1.6.1 but 2 liver					
	Material	No	210			
	Labour	No	210			
3.7	<u>PVC Insulated Copper Wiring</u>					
3.7.1	2,5mm ² for SSO outlets and A/C outlets					
	Material	m	7000			
	Labour	m	7000			
3.7.2	1,5mm ² for lighting					
	Material	m	14000			
	Labour	m	14000			
3.8	<u>Supply, deliver and install in conduits</u> <u>the following bare copper earth wire</u>					
3.8.1	1,5mm ²					
	Material	m	7000			
	Labour	m	7000			
Sub-Total for Bill No. 1(Carried to the next page)						
AFN ELECTRICALL SERVICES CC : SCHEDULES OF QUANTITIES						

CLIENT SIOC COMMUNITY DEVELOPMENT TRUST
 PROJECT LOW COST HOUSING UNIT - GAMAGARA LOCAL MUNICIPALITY
 CONTRACT ELECTRICAL INSTALLATION
 BILL NO. 3 OLIFANTSNEK 70 UNITS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	R	c
	<i>Brought from previous the page</i>					
3.90	<u>Luminaires</u>					
3.9.1	Black bulkhead luminaire - IP65 - 266mm - round complete with 2 x 18W Compact Fluorescent Lamps (SABS approved)					
	Supply	No	560			
	Labour	No	560			
3.10	<u>EXCAVATIONS</u>					
	Excavate cable trench 750mm deep by 350mm wide inclusive of backfilling and compacting					
3.10.1	Soft soil	m3	276.50			
3.10.2	Soft rock	m3	137.20			
3.10.3	Hard rock	m3	137.20			
3.11	<u>Supply, delivery and installation of the following copper cables laid trenches and drawn through sleeves</u>					
3.11.1	10mm ² 3-core PVC SWA PVC					
	Material	m	2100			
	Labour	m	2100			
3.12	Application for the relocation of the existing point of supply, to the temporary accommodation and back to the new structure. (PROVISSIONAL SUM)	Sum	70		R	350 000.00
3.13	Solar Geyser					
	Material		70			
	Labour		70			
3.14	<u>Test and Commission the complete installation (Temporary and permanents houses)</u>	Sum	70			
	Sub-Total for Bill No. 1(Carried to the next page)					
	AFN ELECTRICALL SERVICES CC : SCHEDULES OF QUANTITIES					

SECTION D
TRAINING CONTRACTOR DEVELOPMENT (CETA)

Item No	Quantity	Rate	Amount
<p><u>BILL NO 1</u></p> <p><u>PROVISIONAL SUMS</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>General</u></p> <p>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</p> <p><u>Profit</u></p> <p>Where stated, the contractor may allow for profit if required</p> <p><u>General attendance on nominated/selected subcontractors</u></p> <p>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:</p> <ol style="list-style-type: none"> 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 <p><u>Special attendance on nominated/selected subcontractors</u></p> <p>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</p> <p><u>Builder's work</u></p> <p>Builder's work in connection with specialist services is given elsewhere in these bills of quantities</p>			
<p>Carried Forward</p>		R	
<p>Section No. 1 PROVISIONAL SUMS Bill No. 1 Provisional Sums</p>			

Brought Forward			R
<u>Constructor development training</u>			
1	Provide the sum of R 410 000,00 (Four hundred and ten thousands rands) for the provision of contractor development training courses as accredited with Construction CETA	Item	410 000.00
2	Profit	Item	41 000.00
3	Attendance	Item	20 500.00
<u>Daily allowance</u>			
4	Provide the sum of R 235 000,00 (Two hundred and thirty five thousands rands) for daily allowances of trainees	Item	235 000.00
5	Profit	Item	23 500.00
6	Attendance	Item	11 750.00
<u>Training Facilities Accomodation</u>			
7	Provide the sum of R 1 300 000,00 (One million three hundred thousand rands) for the accomodation facilities for the duration of the construction CETA training	Item	1 300 000.00
8	Profit	Item	130 000.00
9	Attendance	Item	65 000.00
Carried to Final Summary			R 2 236 750.00
Section No. 1 PROVISIONAL SUMS Bill No. 1 Provisional Sums			

Section No	<u>FINAL SUMMARY</u>	Page No		Amount
1	PROVISIONAL SUMS	-2-		2 236 750.00
	Carried to Master Bills of Quantity Summary		R	2 236 750.00

SECTION E
MASTER BILLS OF QUANTITY SUMMARY

MASTER BILLS OF QUANTITY SUMMARY
SIOC CDT
NC/001/2020/B

Item No		Quantity	Rate	Amount
	<u>MASTER BILLS OF QUANTITY SUMMARY</u>			
1	INFILL HOUSING DIEPKLOOF X 10 UNITS	Item		
2	INFILL HOUSING DIBENG X 10 UNITS	Item		
3	INFILL HOUSING OLIFANTSHOEK X 70 UNITS	Item		
4	PROVISIONAL SUMS	Item		
	Sub - Total		R	
	<u>ADD</u>			
5	Escalations	Item		3 060 000.00
	Sub-Total Including Escalations		R	
	<u>ADD</u>			
	Value Added Tax @ 15%		R	
	Total including VAT		R	
	Carried to Final Summary		R	
	Section No. 1			
	MATER BILLS OF QUANTITY SUMMARY			
	Bill No. 1			
	Master Bills of Quantity Summary			

Section No	<u>FINAL SUMMARY</u>	Page No		Amount
1	MATER BILLS OF QUANTITY SUMMARY	-1-		
	Carried to Form of Tender		R	



**REPLACEMENT OF INFILL HOUSING IN
DIBENG AND OLIFANTSHOEK IN
GAMARAGA LOCAL MUNICIPALITY
(NORTHERN CAPE)**

**SITE SPECIFIC HEALTH AND SAFETY
SPECIFICATIONS**

ENQUIRY NO: NC/001/2020/B

COMPILED BASED ON CONSTRUCTION REGULATION 2014

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

TABLE OF CONTENTS

1.0 Introduction and Background

- 1.1 Background to the Health and Safety Specification
- 1.2 Purpose of the Site Specific Health and Safety Specification (SSHSS)
- 1.3 Implementation of the Site Specific Health and Safety Specification

2.0 Site Specific Health and Safety Specification

- 2.1 Scope
- 2.2 Interpretation
 - 2.2.1 Application
 - 2.2.2 Definitions
- 2.3 General Occupational Health and Safety Provisions
 - 2.3.1 Construction Work Permit
 - 2.3.2 Notification of intention to Commence Construction Work
 - 2.3.3 Preparing of Safety Plan and Safety File
 - 2.3.4 Assignment of Contractor's Management Team to Supervise on Site
 - 2.3.5 Competence for contractor's Management Team
 - 2.3.6 Compensation of Occupational Injuries and Diseases Act
 - 2.3.7 Occupational Health and Safety Policy
 - 2.3.8 Health and Safety Organogram
 - 2.3.9 Pregnancy Policy
 - 2.3.10 HIV Policy
 - 2.3.11 Risk Assessment
 - 2.3.12 Health and Safety Representative(s)
 - 2.3.13 Health and Safety Committee(s)
 - 2.3.14 Health and Safety Training
 - 2.3.15 General Record Keeping
 - 2.3.16 General Inspection, Monitoring and reporting
 - 2.3.17 Internal Audits
 - 2.3.18 External Audits
 - 2.3.19 Incentives
 - 2.3.20 Penalties
 - 2.3.21 Emergency Procedures
 - 2.3.22 First Aid Box and First Aid Equipment
 - 2.3.23 Accident / Incident Reporting and Investigation
 - 2.3.24 Hazards and potential situation
 - 2.3.25 Personal Protective Equipment and Clothing
 - 2.3.26 Occupational Health and Safety signage
 - 2.3.27 Permits
 - 2.3.28 Management of Sub-contractors
- 2.4 Occupational Safety
 - 2.4.1 Demolition Work
 - 2.4.2 Excavation, Shoring, Dewatering or Drainage
 - 2.4.3 Explosives and Blasting
 - 2.4.4 Barricading of construction and walk way
 - 2.4.5 Piling
 - 2.4.6 Stacking of Materials
 - 2.4.7 Speed Restriction and Protection
 - 2.4.8 Hazardous Chemical Substance

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

- 2.5 Plant and Machinery
 - 2.5.1 Construction Plant
 - 2.5.2 Vessels under Pressure (Gas Bottles including Operations)
 - 2.5.3 Fire extinguishers and Fire Fighting Equipment
 - 2.5.4 Hired Plant and Machinery
 - 2.5.5 Scaffolding / Working on Heights including roof work
 - 2.5.6 Fall Risk Position, Structures and Temporary Work
 - 2.5.7 Lifting Machines and Tackle
 - 2.5.8 Ladders and Ladder work
 - 2.5.9 General Machinery
 - 2.5.10 Portable Electrical Tools / Explosive Power Tools
 - 2.5.11 High Voltage Electrical Equipment
 - 2.5.12 Public Health and Safety
 - 2.5.13 Night work
 - 2.5.14 Construction employees Facilities
 - 2.5.15 Transport of workers
- 2.6 Occupational Health
 - 2.6.1 Provision of Medical Certificates and Medical Treatment
- 2.7 Traffic Accommodation
- 2.8 Heavy Rain, Lighting and Flooding
- 2.9 Cranes & Lifting Equipment's
- 2.10 Lifting Tackle
- 2.11 Working Over or Close to Water
- 2.12 Welding Flame Cutting
- 2.13 Exposure to Poisonous Animals or Insects
- 2.14 Working on Inclement Weather
- 2.15 Cost for Health and Safety Measures during Construction Process
- 2.16 **COVID-19 CONTROL – SAFETY SPECIFICATIONS**
 - 1 **Annexure A**
Requirement Form
 - 2 **Annexure B**
Contractor's Responsible persons

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SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

1.0 **INTRODUCTION AND BACKGROUND**

1.1 **Background to the Health and Safety Specification**

Historically, the Construction Industry has had poor health and safety record. Due to the complex and potential dangerous operations being undertaken, there is a risk of incidents and injuries. In many instances poor adherence to the Occupational Health and Safety Act (OHSA) has resulted in severe consequences for Health and Safety performances. SIOC determined that the highest health and safety standards will prevail throughout the site and that there will be full commitment from all parties to achieving best practices recognized internationally.

To achieve this goal SIOC has prepared and published a Site Specific Health and Safety Specification (SSHSS) for this project. This Health and Safety Specification sets out guidelines and minimum levels of awareness and guidelines for Health and Safety. Responsibility for adherence rests with Contractors and in particular with all employees who are encouraged to be pro-active. SIOC is committed to ensuring the highest health and safety standards for all work undertaken on site.

Contractors as employers are fully responsible and accountable for compliance with all health and safety requirements.

The Site Specific Health and Safety Specification (SSHSS) have been prepared to include in the Tender and Contract Documents for construction work.

The employer's personnel will be responsible for the auditing of the implementation of the Site Specific Health and Safety Specification (SSHSS) and maintaining the document control and record systems associated with this Site Specific Health and Safety Specification.

1.2 **Purpose of the Site Specific Health and Safety Specification**

The purpose of this site Specific Health and Safety Specification (SSHSS) is to comply with the duties of the Client base on construction regulation 5, to provide health and safety information about specific project risks known by the client and the Site Specific Health and Safety Specification must be included in the tender documents. It is also there to assist towards achieving compliance with Occupational Health and Safety Act No. 85 of 1993 and Regulations in order to reduce incidents and injuries.

The Site Specific Health and Safety Specification (SSHSS) will be implemented during the whole construction phases of the project.

This will also assist in ensuring that all cost related to the compliance with Occupational Health and Safety Act No. 85 of 1993 and Regulations as well as this site specific health and safety specification are taken into consideration at Tender stage.

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

This Site Specific Health and Safety Specification (SSHSS) is a performance specification to ensure that SIOC as well as bodies that enter into formal agreement with the SIOC, Consultants, Contractors, Sub-contractors, achieve an acceptable level of OHS performance.

No advice, approval of any document required by this Site Specific Health and Safety Specification (SSHSS) such as hazard identification and risk assessments action plan or any other form of communication from SIOC shall be construed as an acceptance by SIOC of any obligation that absolves the contractor from achieving the required level of performance and compliance with legal requirements. Further, there is no acceptance of liability by SIOC may result from the contractor failing to comply with the SSHSS unless SIOC issued an instruction to any requirement, i.e. the contractor remains responsible for achieving the required performance levels.

1.3 **Implementation of the Site Specific Health and Safety Specification**

This SSHSS forms an integral part of the contract, and the Principal Contractor is required to make it an integral part of their contracts with Sub-Contractors and Suppliers. It will be disseminated by SIOC to persons responsible for the design of the infrastructure works, which will ensure that contractors shall incorporate the requirements of the SSHSS.

The contractor shall sign a Mandatory Agreement to acknowledgement that he / she has familiarized him / Herself with the contents of this SSHSS and that he/ she shall comply with all his / her obligation in respect thereof.

2.0 **SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION**

2.1 S C O P E

This Health and Safety Specification covers the requirements for eliminating and mitigating incidents and injuries within the Construction site of Upgrading of Infill Housing in Dibeng and Olifantshoek in Northern Cape Province

The scope also addresses legal compliance, hazards identification and risk control, promoting a health and safety culture amongst those working on site and affected by the activities taking place in and around them.

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

Health and Safety is everyone's responsibility, report Unsafe Act and Unsafe Condition to your superior immediately.

2.2 INTERPRETATIONS

2.2.1 Applications

This Site Specific Health and Safety Specification SSHSS contains clauses that are generally applicable to construction and to impose proactive controls associated with activities that impact on human health and safety as it relates to plant and machinery.

Compliance to the requirement of the Occupational Health and Safety Act is in addition to the requirement of this SSHSS and part of the contractor's responsibility.

SOIC will monitor that the contractor/s complies with the requirements of the Occupational Health and Safety Act No 85 of 1993 and Regulations and will advise the contractor how such compliance is achieved.

2.2.2 Definitions

For the purpose of the Site Specific Health and Safety Specification (SSHSS) the definitions, acronyms given hereunder shall apply:

Construction work means any work in connection with

- a) The construction, erection, alteration, renovation, repair, demolition or dismantling of or additional to a building or any similar structure:
- b) The construction of sewer or water reticulation system or the moving of earth, clearing of land, the making of excavation, pilling, or any similar civil engineering structure or type of work.

Construction work permit

Means a document issued in terms of construction regulation 3.

Construction Site

Means a work place where construction work is being performed.

Hazard Identification and Risk Assessment and Risk Control

Means a documented plan, which identifies hazards, assesses the risk and detailing the control measure and safe working procedures, which are to be used to mitigate and control the occurrence of hazards and risk during construction or operation phases.

The Act

Means the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

Hazard

Means a source of or exposure to danger (source which may cause injury or damage to persons, or property)

Risk

Means the probability or likelihood that a hazard can result in injury or damage.

Contractor's Responsible Person

Means any person appointed in writing by the Contractor to supervise construction work. The appointment shall be as required by the OHSA which shall stipulate health and safety responsibilities, area of responsibility and the proposed duration of the project.

Chief Executive Officer

In relation to a body corporate or an enterprise conducted by the state, means the person who is responsible for the overall management and control of the business of such body corporate or enterprise.

Danger

Means anything, which may cause injury or damage to a person or property.

Employee

Means, subject to the provisions of Subsection (2), any person who is employed by or works for any employer and who receives or is entitled to receive any remuneration or who works under the direction or supervision of an employer or any other person.

Employer

Means, subject to the provisions of Subsection (2), any person who employ or provides work for any person or remunerates that person or expressly or tacitly undertakes to remunerates him, but exclude a labour broker as defined in section 1 (1) of the Labour Relation Act, 1953 (Act No. 28 of 1956).

Healthy

Means free from illness or injury

Machinery

Means any article or combination of articles assembled, arranged or connected and which is used or intended to be used for converting any form of energy to performing work, or which is used or intended to be used, whether incidental thereto or not, for developing, receiving, storing, containing, confining, transforming, transmitting, transferring or controlling any form of energy.

Medical Certificate of fitness

Means a certificate contemplated in regulation 7(8).

Mobile Plant

Means any machinery, appliance or other similar device that is able to move independently, and is used for the purpose of performing construction work on a construction site.

Properly used

Means used with reasonable care, and with due regard to any information, instruction or advice supplied by the designer, manufacturer, importer, seller or supplier.

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SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

User

In relation to plant or machinery, means the person who uses plant or machinery for his own benefit or who has the right of control over the use of plant or machinery, but does not include a lessor of, or any person employed in connection with the plant or machinery.

Reasonable Practicable

Means practicable having regard to:

The severity and scope of the hazard or risk concerned,

The state of knowledge reasonably available concerning that or risk and any means of removing or mitigating that hazard risk.

The availability and suitability of means to remove or mitigate that hazard or risk, and

The cost of removing or mitigating that hazard or risk in relation to the benefits deriving there from.

Safe

Mean free from any hazard.

Client

Means any person for whom construction work is performed and/or undertaken (i.e. SIOC Community Development Trust (SIOC) for the purpose of this specification.

Agent

Means a competent person who acts as a representative for client

Competent person

Means a person who has in respect of the work or task to be performed the required knowledge, training and experience and where applicable, qualifications, specific to that work or task: Provided that where appropriate qualifications and training are registered in terms of the provisions the National Qualification Framework Act, 2000 (Act No 67 of 2000), those qualifications and that training must be regarded as the required qualifications and training.

Construction Manager

Means a competent person responsible for the management of the physical construction processes and the coordination, administration and management of resources on a construction site.

Contractor

Means an employer who performs construction work.

Health and Safety file

Means a file or other record containing the information in writing required by these regulations.

Health and Safety plan

Means a site, activity or project specific documented plan in accordance with the client's health and safety specification.

Health and Safety specification

Means a site, activity or project specific document prepared by the client pertaining to all health and safety requirements related to construction work.

Method statement

Means a document detailing the key activities to be performed in order to reduce as reasonable as practicable the hazards identified in any risk assessment.

Principal contractor

Means an employer appointed by the client to perform construction work.

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

2.3 GENERAL HEALTH AND SAFETY PROVISIONS

2.3.1 Construction Work Permit (Construction Regulation 3)

1. A Client who intends to have construction work carried out, must at least 30 days before that work is to be carried out apply to the provincial director in writing for a construction work permit to perform construction work for the intended construction work starts after the 7th of August 2018 and exceeds 365 days, will involve more than 3600 persons or the works contract is of a value **exceeding thirteen million rand or Construction Industry Development Board (CIDB) grading 7.**

2.3.2 Notification of intent to commence Construction Work (Construction Regulation 4)

The Contractor shall notify the Provincial Director of the Department of Labour in writing 7 days before the work begins if the tendered construction work will

- Include excavation
- Include working at height where there is a risk of falling
- Include demolition of a structure or
- Include the use of explosive to perform construction work

Notification form or template can be found in the Construction Regulations, 2014 – **Annexure 2**

A copy of the notification letter from the Provincial Director shall be kept in the safety file at all times.

2.3.3 Preparing of Safety Plan and Safety File

The Contractor shall provide and demonstrate to the Client a suitable, sufficiently documented and coherent site specific health and safety plan based on the Client's Site Specific Health and Safety Specification (SSHSS) (Construction Regulation 7 (1)(a)).

The Contractor shall open and keep on site a health and safety file, which must include all documentation required in terms of the Act and these regulations (Construction Regulation 7 (1) (b)).

The Contractor must include his or her letterhead on the safety plan and on all documentation in the safety file as these are legal documents which the contractor is legally bound to implement and can be used in a court of Law.

2.3.4 Assignment of Contractor's Management Team to Supervise on Site

The Contractor shall submit all supervisory appointment (contractor's management team) as well as safety Officer; the Contractor shall submit a competent certificate of the appointed safety officer who will be available on site full time. The safety officer must be appointed in writing. The safety officer will assist in the control of all safety related aspects on site. The safety officer will also be utilized to give input at the early stage of the project and input into the health and safety plan. The Contractor shall also submit a CV of the safety officer for approval by Safety Agent appointed by SIOC and must be registered with SACPCMP or have proof of application prior the commencement of work on site.

2.3.5 Competency for Contractor's Management Team

The Contractor's management team shall be competent and proof of competency must be send to SIOC before commencement, the safety officer must be appointed full time on site and have a proof of registration with a statutory body approved by the chief inspector (SACPCMP). The Contractor shall submit CV's of the contractor's management team for approval to SOIC prior the commencement of work on site.

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

2.3.6 Compensation of Occupational Injuries and Diseases Act 130 of 1993 (COIDA)

Valid Letter of good standing with the compensation Insurer must be submitted with the Tender.

2.3.7 Occupational Health and Safety Policy

The Contractor shall submit a Health and Safety Policy signed by the Chief Executive Officer/ Managing Director. The Policy must outline objectives and how they will be achieved and implemented by the Contractor

2.3.8 Health and Safety Organogram

The Contractor shall submit an organogram, prior to construction commencement, outlining the Health and Safety Sites Team as required and as related to the relevant appointment by the OHSA. In cases where appointments have not been made, the organogram shall reflect the position. The organogram shall be updated, when there is a change in the site team.

2.3.9 Pregnancy Policy

The Contractor shall submit a Pregnancy Policy signed by the Chief Executive Officer/ Managing Director.

2.3.10 HIV Policy

The Contractor shall submit a HIV Policy signed by the Chief Executive Officer/ Managing Director

2.3.11 Risk Assessment

The Client shall prepare a Baseline Risk Assessment for the intended construction work projects and the risk identified and assessed shall form part of the health and safety specification.

The Contractor shall cause a hazard identification to be performed by a competent person before commencement of construction work, and the assessed risk shall form part of the health and safety plan applied on site and shall include the following:

- a) The identification of the risk and hazards to the health and safety to which persons may be exposed;
- b) The analysis and evaluation of the hazards identified;
- c) A documented plan and safe working procedures to mitigate, reduce or control the risk identified; and
- d) The monitoring and review plan of the risk and hazards.
- e) The relevant personal protective equipment or clothing

Preventative measures must first address the elimination of the hazard or risk. Should PPE be required to reduce risk the equipment or clothing must be used and be SABS approved.

Hazard Identification Risk Assessment (HIRA) it's an on- ongoing process and must be reviewed regularly where changes are made to the design or when incident occurred or when starting a new activity on site. The Contractor must ensure that all employees under his or her control are informed, instructed and trained by a competent person regarding all hazard identified before any work commence.

The Health and Safety Representative(s), the Health and Safety Committee Member and (Contractor's Representative) shall be members of the HIRA Team and will ensure that all the identified hazards and risk are appropriately controlled and reviewed.

The Contractor shall be responsible for making sure that all employees under his/ her control are conversant with the content of the HIRA and what appropriate measures have been put in place to either eliminate or reduce the identified risk. The Contractor shall outline to employees what role they are expected to play in the HIRA and control measure process.

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

The Contractor must ensure that copies of risk assessments for this site are available on site for inspection by interested parties' i.e. Client Agent

2.3.12 Health and Safety Representative(s)

The Contractor shall ensure that a Health and Safety Representative(s) are/ is elected and trained to carry out his / her functions. The appointment must be in writing. The Health and Safety Representative shall carry out regular inspection, keeps records and report to the supervisor to take appropriate action. He / she shall attend Health and Safety Committee Meetings and take part in investigating incidents and non - conformances.

2.3.13 Health and Safety Committees

Where two or more safety representative has been designated on site the Contractor shall establish one or more health and safety committee/committees. The Contractor shall ensure that monthly Health and Safety meetings are held and minutes are kept. The Contractor shall ensure that the safety officer and/ or safety representative attends these meetings. Minutes thereof must be available in the safety file.

2.3.14 Health and Safety Training

The Contractor shall conduct a training needs analysis quarterly to ascertain what health and safety training is required.

2.3.14.1 Induction

The Contractor shall ensure that all employees under his / her control have gone through health and safety induction before commencement on site. The Contractor shall make it a rule that the entrance to the induction training is a medical certificate of fitness and shall keep a copy of the attendance register of all his/ her employees who attended the induction. Provide employees with some form of proof of induction when on site i.e. cards

2.3.14.2 Awareness

The Contractor shall conduct, on site, periodic toolbox talks, preferably weekly or before any hazardous work takes place. The talks shall take cover the relevant activity and an attendance register must be kept and signed by all attendees. A record of who attended and the content of the topic will be kept on the site health and safety file as evidence of training.

2.3.14.3 Competency

After the Contractor has identified the training to be conducted as part of the competency and based on the HIRA. He/ she shall send the relevant person on appropriate courses and keep the certificate for reference.

2.3.15 General Record Keeping

The contractor shall keep and maintain Health and Safety records to demonstrate compliance with the SSHSS and the OHSA. The Contractor shall ensure that all records of incidents, spot fines, training etc. are kept on site. All documents shall be available for inspection by SOIC, Client or the Department of Labor's Inspectors.

2.3.16 General Inspection, Monitoring and Reporting

The Contractor shall carry out daily inspection and investigate all incident and report to SOIC as required in General Administrative Regulations 8, Annexure 1 must be must be emailed to SOIC every time an incident is recorded. The Contractor shall be required to keep records of all inspections and investigations, which were undertaken, and any other inspections and investigations by person(s) authorized to do so.

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

2.3.17 Internal Audits

The Contractors personnel (Contractor's Responsible Person) shall conduct monthly health and safety audits to ensure compliance with the OHSA and SSHSS. Records of audits must be kept and non-conformance reported, investigation and corrective action must be taken to prevent re-occurrence.

2.3.18 External Audits

The Client's representative shall conduct monthly health and safety audits to ensure compliance with SSHSS and any relevant Health and Safety Legislation (OHSA). All documentation held by the Contractor shall be available for inspection. The Contractor shall provide any additional information required by the representative or Client.

2.3.19 Incentives

The Client representative shall develop some performance indicators to determine the Contractor's performance which can be incentives base so to, or acknowledge the Contractor.

2.3.20 Penalties

The Client will impose spot fines on the Contractor if found to be infringing on the SSHSS or any requirement of the OHSA. The Contractor shall be advised in writing of the nature of the infringement and the amount of the spot fine. The Contractor shall also take necessary steps (e.g. training) to prevent recurrence of the infringement and shall advise the client accordingly. The Contractor is also advised that the imposition of spot fines does not replace any legal proceedings the Client, Authorities, or Members of the public may institute against the Contractor. Spot fines shall be between R250 and R2000, depending upon severity. The amount of the spot fine will be determined by the client representative and will be final. In addition to the spot fine, the Contractor shall make good any damage caused as a result of the infringement at his own expense.

Infringements for which spot fines will be imposed, but are not limited to, are given below:

- ✓ Not keeping a copy of the OHSA on site
- ✓ Expired Letter of Good Standing
- ✓ Not keeping a fully stocked First Aid Box
- ✓ Failure to use Personal Protective Equipment or Clothing
- ✓ Failure to adhere to the safe work procedure as per Hazard Identification and Risk Assessments
- ✓ Failure to conduct inspections
- ✓ Failure to keep records of inspection of equipment or machinery
- ✓ Failure to adhere to Occupational Health and Safety signage posted on site
- ✓ Failure to report incidents as per legal requirements and as per SIOC reporting of investigation procedures,
- ✓ Littering on site – not adhering to on site housekeeping,
- ✓ Failure to provide or use ablution facilities
- ✓ Being on site without having gone through Health and Safety Induction and
- ✓ Use of machinery by non -authorized personnel.

Receipts for fines shall be issued and the appropriate documentation be placed in the safety file. Money "raised" through fines may be used to fund health and safety incentive schemes and /or other social schemes of collective benefit.

A contravention of a requirement of this SSHSS shall be sufficient grounds for SIOC to require the removal from site of the person responsible for the non-compliance and the contractor shall have no claim in reject of such removal.

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

2.3.21 Emergency Procedures

The contractor must prepare an Emergency Procedure's for the site. The procedure shall detail the response plan including the following key personnel:

- List of key personnel,
- Details of emergency services,
- Actions or steps to be taken in the event of the emergency; and
- Information on hazardous material / situation, including each material's / hazardous potential impact or risk on the environment or human and measures to be taken in the event of an accident.

Emergency Procedures shall include, but shall not be limited to, fire, spills, accidents to employees, use of hazardous substances, etc. the contractor shall advise the client in writing of any on site emergencies, together with a record of action taken, within 24 hours of the emergency occurring. A contractor list of all service providers (Fire department, Ambulance, Police, Medical and Hospital, etc.) must be maintained and available on the safety file.

2.3.22 First Aid Box and First Aid Equipment

The contractor shall appoint in writing a First Aid Attendant/s, the appointed First Aid Attendant/s are to be sent for accredited first aid training before starting on site. Valid certificates are to be kept on the safety file on site. The contractor shall provide an on-site First Aid Box, adequately stocked at all times, and ensure that the first aid box is accessible and fully controlled by a qualified first aid attendant.

2.3.23 Accident / Incident Reporting and Investigation

The contractor shall in addition to the prescribed requirements of the OHS Act, investigate, record and report all reportable incidents as per the legal requirements. The Investigation shall be conducted by a qualified person or person who has sufficient knowledge to carry out an investigation.

2.3.24 Hazards and Potential Situations

The contractor shall immediately notify other sub-contractors after the client has been notified of any hazardous or potentially hazardous situations, which may arise during performance of the activities.

2.3.25 Personal Protective Equipment (PPE) and Clothing

The contractor shall ensure that all workers are issued and wear Helmets, steel Toe Safety Shoes and overall as a minimum requirement. The contractor shall carry out PPE or clothing needs analysis to determine the necessary PPE or clothing and as determined by the HIRA or clothing to be used during construction. The contractor shall make provision and keep adequate quantities of SAN approved PPE or clothing on site at all times. The contractor shall outline procedure to be taken when PPE or clothing is:

- Lost or stolen
- Worn out or damage

2.3.26 Occupational Health and Safety Signage

The contractor shall, ascertain and provide adequate on site OHS signage. OHS signage shall be include, but shall not be limited to, hard hat/ helmet area, safety shoes must be worn, dust masks in areas where there might be exposure to dust, ear plugs/muffs where there might be exposure over a certain limit, gloves, safety goggles, safety harness, etc. the contractor shall be responsible to maintain the quality and replacement of signage.

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

2.3.27 Permits

The contractor shall ensure that a written work permit is obtained from SIOC before commencing with any work to be undertaken. A permit shall be issued for all hazardous or dangerous activities to be carried during construction. Client representative shall sign the permit before the contractor commence on site, the following is a list of hazardous activities, which need a permit:

- Hot works/ welding
- Working in confined space
- Carrying out excavation more than 1.5m deep
- Use of hazardous chemical substance, e.g. Asbestos, Lead
- Demolition work
- Use of explosive and blasting; and
- Piling

2.3.28 Management of Sub-contractors

The contractor shall ensure that all sub-contractors under his/ her control are complying with this SSHSS; the OHSWA requirements; and any relevant legislation which may relate to the activities directly or indirectly.

2.4 OCCUPATIONAL SAFETY

2.4.1 Demolition Work

Prior to any demolition work being carried out, the contractor shall submit a safe working procedure and a detailed engineering survey for approval by the client; acceptance will then be issued to the contractor to proceed with the demolition work. The contractor shall ensure that demolition work complies with Construction Regulation 14 at all times and where there is asbestos to be demolished comply with asbestos regulation 21.

2.4.2 Excavation, Shoring, Dewatering or Drainage

The contractor shall make provision in his/her tender for shoring, dewatering or drainage of any excavation unless otherwise stipulated elsewhere in the contracts. If an excavation is more than 1.5 meters long / deep a safe working procedures shall be submitted for approval by SIOC. A permit will be issued to the contractor to proceed with the excavation work. The contractor shall make sure that:

- a) The excavation/s are inspected before the shift starts and record is kept;
- b) There are no unguarded excavations regardless of depth;
- c) The safe working procedures has been communicated to the workers; and
- d) The safe working procedures is enforced and maintained by the contractor's responsible person at all times.

2.4.3 Explosive and Blasting

The contractor shall ensure that the use of explosive and blasting (where required) be undertaken by a specialist contractor or a sub-contractor with proven track record in the type of work to be performed. A safe working procedure (SWP) shall be submitted for approval by SIOC before commencement of work.

2.4.4 Barricading of construction and walk way

Areas where the restriction or prevention of unauthorized persons/members of public is required

- Name and contact detail of person and Contractor Company that is responsible for the barricading shall be posted on the actual barricading.
- All barricading shall be of the rigid type.
- All openings and edges must be barricaded with solid barricading to withstand an impact of at least 100 kg.

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

- Only solid (scaffolding or standalone) barricading with Orange “Snow Netting” will be allowed.
- Physical barriers to prevent persons falling into openings in floors, stairwells, staircases, open-sided buildings and any structure in the course of erection, where dangerous openings exist.
- Contractors must pre-plan the delivery of floor grating, stair treads, landings and handrails to ensure safe access and protection for persons working on structures.
- Contractor will properly barricade their work place separating it from other adjacent occupied housing units + - 1,8 high diamond fence plus 80% shade netting to avoid visual disturbances of neighbours, small children within the area and always ensure that the barricading is properly in place and offer optimal separation and safety.

N.B The contractors barricading standard procedures must accompany the SHE plan.

2.4.5 Piling

The Contractor shall ensure that piling (where required) is undertaken by a specialized contractor or a subcontractor with proven records in the type of work performed. A SWP shall be submitted for approval to the client, before commencement of this work.

2.4.6 Stacking of Materials

The Contractor shall ensure that a competent person is appointed in writing as stacking supervisor of all materials on site, provide adequate storage area, demarcate storage area and keep the storage and storage areas neat and under control.

Housekeeping means a place for everything and everything in its place.

2.4.7 Speed Restrictions and Protection

The Contractor shall ensure that all persons in their employ and all those that are visiting the site are aware and comply with the site speed restriction(s). On site gravel or earth roads and within 500m of the site, the vehicles of the Contractor and his/her suppliers shall be regulated to a maximum of 30km/h or as directed by notices and signs.

2.4.8 Hazardous Chemical Substances (HCS)

The Contractor shall provide the necessary training and information regarding the use and storage of HCS. The Contractor shall ensure that the use and storage of HCS is carried out as prescribed by the HCS Regulation. The Contractor shall ensure that all chemicals brought to site have a Material Safety Data Sheet (MSDS) on site and the users are made aware of the Occupational hazard and precautions that need to be taken when using the chemicals through training and proof must be available in the safety file. The First Aid Attendant must be made aware of the MSDS and how to treat HCS incidents appropriately.

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

2.5 Plant and Machinery

2.5.1 Construction Plant

“Construction Plant” encompasses all types of plant including but not limiting to, cranes, piling frames, boring machines, excavators, draglines, dewatering equipment and road vehicles with or without lifting equipment. The Contractor shall ensure that all such plant complies with the requirements of the OHSA. The Contractor shall inspect and keep records of inspections of the tools and equipment used on site. Only authorised persons are to use machinery under proper supervision. Appropriate PPE and clothing and as specified by the HIRA, shall be provided and maintained in good condition at all times.

2.5.2 Vessels under Pressure (VuP) or Gas Bottles including Operations

The Contractor shall comply with Vessels under Pressure Regulation, including:

- Providing competency and awareness training to the operators;
- Providing PPE or clothing;
- Providing and maintain appropriate signage in areas where VuP are used;
- Inspect equipment regularly and keep records of inspections;
- Providing appropriate firefighting equipment (Fire Extinguishers).

2.5.3 Fire Extinguishers and Fire Fighting Equipment

The Contractor shall provide adequate, serviced regularly, fire extinguishers located at strategic points in site where the contractor is engaged in construction activity. The Contractor shall keep spare serviced portable fire extinguishers where required. Safety signage shall be posted up in all areas where fire extinguishers are located. The Contractor shall have adequate persons trained or competent to use the Fire Fighting Equipment.

2.5.4 Hired Plant and Machinery

The Contractor shall ensure that any hired plant and machinery brought to the site is safe for use. The necessary requirements as stipulated by the OHSA as well as those that are stipulated by this SSHSS, shall apply. The Contractor shall ensure that operators hired with the machinery undergoes health and safety induction, have their certificate of fitness and competency, have appropriate tool box talks and be issued with the necessary PPE clothing.

2.5.5 Scaffolding/ Working on heights including roof work

Working on heights includes any work, which is 1, 5 metres above ground level. The Contractor shall ensure that a detailed HIRA has been undertaken and submitted for approval by the client before commencement on site. The Contractor shall appoint and train a scaffold inspector and erector to control the safety of the scaffolding at all times. The Contractor shall ensure that all scaffolding including freestanding scaffolding, complies with the requirement of the General Safety Regulations and the Construction Regulations.

2.5.6 Fall Risk Position, Structures and Temporary Work

When Working on fall risk position the Contractor shall ensure that a fall protection plan which includes risk assessment and a rescue plan is prepared by a competent person appointed in writing, the Contractor must ensure that the fall protection plan is implemented, amended where and when necessary and maintained and must comply with the entire construction regulation 10.

When working on structures the Contractor shall ensure that all reasonable practicable steps are taken to prevent an uncontrolled collapse of any new or existing structure or any part thereof which can become unstable or is in a temporary state of weakness or instability due to the carrying out of construction work and must comply with the entire construction regulation 11.

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

When working on temporary works the Contractor shall ensure that a temporary work designer is appointed in writing to design, inspect and approve the erected temporary work on site before use and must comply with the entire construction regulation 12.

2.5.7 Lifting Machinery and Tackle

The Contractor shall ensure that lifting machinery and tackle is inspected before use and monthly. There shall be lifting machinery and tackle inspector who will inspect the equipment daily or before use, taking into account that:

- All lifting machinery and tackle have a safe working load clearly indicated,
- Regular inspection and servicing is carried out,
- Records are kept of inspections and of service certificates,
- There is proper supervision in terms of guiding the loads, which includes a trained banksman to direct and check lifting tackle if it is safe for use.

2.5.8 Ladder and Ladder work

The Contractor shall ensure that all ladders are numbered and inspected regularly keeping records of inspections. It should be noted that Aluminium ladders are preferred to wooden ladders. Wooden Ladders shall not be painted. Painted ladders shall be removed from site.

2.5.9 General Machinery

The Contractor shall comply with the Driven Machinery Regulation and Construction Regulations, which includes inspecting machinery regularly, appointing a competent person to inspect and ensure maintenance, issuing PPE or clothing and training those that use machinery and enforce compliance and the medical and psychological testing of operators.

2.5.10 Portable Electrical Tools / Explosive Power Tools

The Contractor shall ensure that use and storage of all explosive powered tools and portable electrical tools are in compliance with relevant legislation. The Contractor shall consider that:

- A competent person undertakes routine inspections,
- Only authorised person use the tools,
- There is safe working procedure applied,
- Awareness training is carried out and compliance is enforced at all times and
- PPE and clothing is provided and maintained.

2.5.11 High Voltage Electrical Equipment

The Contractor shall ensure that, where the work is under, on or near high voltage electrical equipment on site the Electrical Regulations are complied with.

2.5.12 Public Health and Safety

The Contractor shall ensure that each person working on or visiting a site shall be made aware of the dangers likely to arise from onsite activities and the precautions to be observed to avoid or minimize those dangers. Appropriate health and safety signage shall be posted at all times.

Both the client and the Contractor have a duty in terms of the OHSA to do all that is reasonably practicable to prevent members of the public and others being affected by the construction processes to be aware and put preventative measures in place. The public or visitor shall go through a brief health and safety induction detailing hazards and risks they may be exposed to what measures are in place to control these hazards and risks.

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

2.5.13 Night Work

The Contractor shall not undertake any night work without prior arrangement and written permit from the client representative. The Contractor shall ensure that adequate lighting is provided for all night work and failure to do so shall result in work being stopped.

2.5.14 Construction employee's facilities

The Contractor in addition with the facility regulations, 2004 shall provide within reasonable access of every construction site the following clean, hygienic and maintained facilities

1. Shower facilities at least one shower for 15 people
2. Sanitary facility for each sex and for every 30 workers
3. Changing facility for each sex
4. Sheltered eating facility with tables and chairs

The weather conditions might be unsuitable for workers to be exposed to e.g. in rainy season. In terms of the OHSA, employers have to provide employees with facilities for safekeeping.

2.5.15 Transport of Workers

The contractor shall comply with the National Road Transport Regulations, 2000. The Contractor shall, and not be limited to:

- Not transport person together with goods or tools unless is an appropriate area or section to store them.
- Not transport persons in a non- enclosed (top) vehicle, e.g. truck, there must be a proper canopy (properly covering the back and the top) with suitable sitting area. Workers shall not be permitted to stand or sit at the edge of the transporting vehicle.
- Not transporting workers in a bakkie/open back commercial vehicle.
- Provision of a serviced portable fire extinguisher at all times

It is vital that all those exposed to the hazards or risk are made aware of the risk what control measures have been put in place to prevent the occurrence of incidents.

2.6 Occupational Health

Exposed of workers to occupational health and hazards and risk are very common in any work environment, especially in construction. Occupational health hazards and risk exposed is a major problem and all Contractors are to ensure that proper health and hygiene measures are put in place to prevent exposure to these hazards and risks. The occupational hazards and risks may enter the body in three ways:

- Inhalation through breathing e.g. cement dust,
- Ingestion through swallowing maybe through food intake.
- Absorption through the skin (pours) e.g. panting or use of thinners.

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

2.6.1 Provision of Medical Certificates and Medical Treatment

The Contractor shall be required to:

- Ensure that all his or her employees have valid medical certificates of fitness specific to the construction work to be performed and issued by an occupational health practitioner as defined in the construction regulation 7(8).

The Contractor shall ensure that a facility is identified close to the site for medical treatment under the following situations

- Injury on duty (IOD) referred to here as First Aid, Medicals and Disabling Incidents.
- Emergency Response

2.7. Traffic Accommodation

The Contractor must comply with the requirements of the Road Traffic Act (Act 93 of 1996) as well as the requirements of relevant authorities at all times with attention to signage and flagmen

2.8. Heavy Rain, Lighting and Flooding

The Contractor must take precautions against lightning by the use of lightning protection equipment and earthing mats, all of which shall be properly designed and installed to the satisfaction of the Engineer.

Metalwork and conductors on the Site shall be properly earthed.

No charging or blasting shall take place if the imminent approach of lightning to the Site is forecast. All charged areas shall be immediately evacuated.

Where there is a likelihood of flooding of the workplace measures for the timeous warning of flooding will be put in place. A critical consideration in this regard will be the protection of workers in the pipeline in the event of a flood and the contractor must prepare a Method Statement that will clearly indicate the intended means of addressing this possibility.

2.9 Cranes & Lifting Equipment

Lifting equipment will be designed and constructed in accordance with the manufactures/designers specification as well as generally accepted technical standard and operated, used, inspected and maintain in accordance with the manufactures requirements as well as that of the Driven Machinery Regulation 18.

The Driven Machinery Regulation requires that

- a. Lifting equipment will be clearly and conspicuously marked with the maximum mass load (MML) that it is designed to carry safely. When the MML varies with the condition of use, the table of maximum loads will be used by the driver or operator
- b. Each witch on a lifting machine will at all-time have at least three full turns of rope on the drum when the winch has been run to its lowest limit.
- c. Lifting equipment will be fitted with a brake or other applicable device capable of holding the MML. This brake or device must automatically prevent the downward movement of the load when lifting power is interrupted.
- d. Lifting equipment fitted with load limiting device that automatically arrest the lift when the load reaches its highest safe position or when the mass of the load is greater than the MML.
- e. Every chain or rope on a lifting machine that forms an integral part of the machine will have a factor of safety as prescribed by the manufacturer of the machine and where no standard is available the factor of safety must be:
 - Chains - 4 (four)
 - Steel wire ropes - 5 (five)

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

- Fibre ropes - 10 (ten)
- f. Every hook or load attached device will be designed as such or fitted with a device that will prevent the load from slipping off or disconnecting.
- g. Every lifting machine will be inspected and load tested by a competent person every time it has been dismantled and re-erected and every 12 months after that. The load test will be in accordance with the chains, hook or other attaching devices, sheaves, brake and safety devices forming an integral part of a lifting machine will be inspected every 6 months by a competent person.
- h. All maintenance, repairs, alteration and inspection results will be recorded in a log book and each lifting machine must have its own log book and
- i. No person will be lifted by a lifting machine not designed for lifting persons unless in a cradle approved by an inspector of the Department of Labour.

2.10. Lifting Tackle

The contractor must ensure that only use lifting tackle that meet the following requirement as per client OHS Specification

- a. Manufactured of sound material, well-constructed and free from latent defects
- b. Clearly and conspicuously marked with an identity number
- c. Maximum mass load factor of safety
 - Natural fibre ropes - 10 (ten)
 - Man – made fibre ropes and woven webbing - 06 (six)
 - Steel wire ropes – single rope - 06 (six)
 - Steel wire ropes – combination slings - 08 (eight)
 - Mild Steel chains - 05 (five)
 - High tensile/alloy steel chains - 04 (four)
- d. Steel wire ropes will be discarded (or not used any further for lifting purpose) when wear and corrosion is evident and will be examined by a competent person every three month for this purpose and the result will be recorded in a designated log book

2.11 Working over or close to water

When working over or close proximity to water or similar liquids such as wastewater and sludge the contractor must

- Appoint a competent person in writing to supervise, control and inspect any work on or over or in close proximity of the water as well as the construction, installation and dismantling of caissons and or cofferdams and/ or other support or safety structures
- Proof of competence of the above mentioned appointee will be available on site
- Risk assessment will be carried out by the competent person before any work is undertaken, mitigation measures will be documented, implemented and thereafter evaluated on the daily basics
- Induction and refresher training will be undertaken when necessary
- Measure for the timeous warning of flooding will be place
- Provisions will be made to prevent employees from falling into the water and rescuing of employees in danger of drowning
- Employees exposed to the risk of drowning by failing into the water will be provided with a lifejacket
- Applicable personal proactive equipment's such as safety harnesses will be utilized

2.12 Welding, flame cutting or similar operations

Should any welding work be undertaken the contractor must;

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

2.12.1. A competent person is appointed to supervise welding, flame cutting or similar operations on site

2.12.2 The following rules will govern all welding, flame cutting or similar operations

- a. The welder will be trained regarding the safe use/ operation of the equipment
- b. The welder and his assistant will be provided with effective and appropriate personal protective equipment
- c. Cables and electrode holders will be effectively insulated.
- d. The workplace will be effectively screened off to prevent bystanders from being affected by the welding rays or they will be provided with personal protective equipment's
- e. Special precaution will be taken where welding is undertaken in confined space
- f. In wet or damp conditions, the welding equipment and welder will be properly insulated and someone will be on standby to assist in the event of an emergency.
- g. A qualified person will have certified in writing that it is safe to enter and work in a specific confined space before welding or flame cutting is undertaken
- h. No welding, flame cutting, grinding, soldering or similar work shall be undertaken in respect of any drum, vessels or similar object or container where such object or container –
 - Is completely closed, unless the rise in internal pressure cannot render it dangerous or
 - Contains any substance which, under the action of heat may explode or react to form dangerous or poisonous substance
- i. Where pressure vessels/welding cylinders containing oxygen or acetylene are transported or used the proper precautionary measures will be taken against bumping, falling, rolling etcetera
- j. Gas welding hoses may only be joined with approved connectors and clamps
- k. No oils or grease may be applied to oxygen valves and fittings
- l. It is a sound practice to store pressure vessels or welding cylinders vertically and to secure them by means of a chain
- m. Acetylene cylinders may never be inclined in excess of 45 degrees
- n. Proper and adequate fire prevention measures will be instituted and maintained for as long as the welding continues
- o. Where explosive or flammable vapours are present welding will only be done under hot work permit.

2.13 Exposure to poisonous animals or insects

The contractor must ensure that the following are duly adhered to:

- a. The emergency procedure will have effective treatment for employees or other persons visiting the site and exposed to bites or stings from poisonous animals and insects i.e. the contact details of the nearest medical unit that could treat employees exposed to bites or stings be obtained and arrangements will be made with the service provider on the procedure to be followed to ensure swift response when required
- b. Confirmation will be obtained from this medical unit that they have anti venom reserved to treat employees or other persons visiting that may be exposed to snake bites or scorpion stings
- c. Competent first aider will be available to facilitate the treatment and the
- d. Potential exposure posed by poisonous animals or insects and awareness thereof be discussed with all employees as part of the toolbox talks and general awareness training and other persons visiting as part of the pre site visit induction process

2.14 Working in inclement weather

The contractor must implement an early warning system to identify inclement weather and prevent such weather from posing negative implications on the safety of employees and other person visiting

The early warning system will provide the following:

2.14.1 Construction work done during electrical storm

- a. The contractor must ensure that all employees are removed from height and all employees are as safe as possible, in inclement weather conditions

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

- b. Work will not be done on construction site during electrical storms where employees cannot be protected from it. Protection involves employees being restricted to:
 - i. Eating area fitted with lighting mast
 - ii. Workshops
 - iii. Inside building
- c. No work will be allowed when lightning is within a 10 kilometre radius.
- d. After inclement weather on site risk assessment will be reviewed to include wet condition.

2.14.2 Lifting equipment operation during inclement weather

- a. Lifting operation will stop during lightning within a 10 kilometre radius and wind above 28km/h, and the lifting equipment operator will not be allowed to leave the lifting equipment with the booms extended.
- b. Lifting operations will stop during rain, rigging and hand lifts
- c. Booms on lifting equipments will be retracted
- d. All rigging operations will stop and employees will be removed from site.

2.14.3 Construction work done during rain

- a. During rainy conditions all work on steel structure will stop
- b. No electrical tools will be used during rainy weather in open areas
- c. Work can be done in water proof areas where there is zero risk for electrocution
- d. Areas which will be cleared to work on during rain
 - Workshops
 - Offices

2.14.4 Driving in inclement weather

The contractor must ensure that the danger of driving in wet conditions is adequately covered in the risk assessment

The risk will include

1. Route planning
2. Speed reduction
3. Planning for emergency situations
4. Driving precautions for slippery surfaces
5. Visibility hazards

2.15 Cost for health and safety measures during construction process

The contractor must allocate sufficient provision for the cost of implementing and maintaining of the health and safety plan.

2.16 COVID-19 Control: Action Plan & Risk Assessment

In January 2020, the World Health Organization (WHO) declared the outbreak of a new coronavirus disease in Hubei Province, China, to be a Public Health Emergency of International Concern. WHO stated there is a high risk of the 2019 coronavirus disease (COVID -19) spreading to other countries around the world. WHO and public health authorities around the world are taking action to contain the COVID-19 outbreak. However, long term success cannot be taken for granted.

All sections of our society, including businesses and employers must play a role if we are to stop the spread of this disease. To reduce the impact of COVID-19 outbreak conditions on businesses, workers and the public, it is important for all employers to plan for control of COVID-19. The contractor must devise an action plan to control spread and impact of COVID-19 on construction operations.

The action plan is to institute reasonably practicable measures to eliminate or minimise the identified significant risks associated with COVID-19 and effectively manage and protect persons against them. This is in compliance with the provisions of the Occupational Health and Safety Act, Act 85 of 1993 and also to support the World Health Organisation's efforts to contain spread of the virus. The plans should include the following:

2.16.1 Accommodation

Where accommodation is provided by the Principal Contractor, the following shall be ensured:

- Density of occupants to allow for adequate social distancing (minimum 1.5m) in sleeping and dining quarters.
- Restriction on the number of persons using the same sanitary/hygiene facilities.
- Provision of dedicated crockery and cutlery for each occupant, together with a procedure for effective cleaning and safe storage of same and a prohibition on the sharing of utensils.
- Dedicated facilities for safekeeping of personal belongings and abovementioned utensils for each person. Such facilities are to allow for total segregation of belongings and must be easy to sanitize. Provision of such facilities for safekeeping to be accompanied with a procedure for the use and sanitizing of the storage facility to reduce the risk of cross-contamination.
- Facilities for accommodation provided by the contractor to have in place stringent procedures for personal hygiene, ongoing maintenance of sanitizing and social distancing, and
- Additional rules to include a prohibition on the sharing of clothing, towels and other personal belongings, as well as the laundering of clothing for multiple persons at the same time.

2.16.2 Transport to and from sites

Where transport is provided to and from site, the contractor to source a transport service provider that complies with all travel restrictions and requirements as gazetted by the government, inter alia:

- Maximum occupancy of vehicles to allow for social distancing.
- Vehicle sanitized before passengers board.
- Passengers provided with hand sanitizer and face masks prior to boarding.
- Vehicle sanitized before boarding, and hand sanitizer provided to passengers prior to boarding, after each stop where passengers leave the vehicle for comfort breaks,

- Frequent hand sanitizing is recommended during transit.

2.16.3 Social Distancing

Social distancing has been shown to be an effective method to slow down the spread of the corona virus. It will be incumbent on the contractor to ensure that the construction site and facilities are set up in such a way that it will be possible as far as is practicable to maintain the required social distancing of a minimum of 1 metre between persons when at work.

2.16.3.1 Tasks that require more than 1 person to complete

Where it is not possible to maintain the required distance between workers due to the nature of the work activity, e.g. curb laying, confined working areas, rebar tying, preparing wire cages, the contractor will be required to implement, maintain and enforce a procedure to adequately protect such workers against potential infection with the corona virus. This includes but is not limited to:

- Providing adequate supplies of suitable PPE such as face masks, task specific gloves, safety glasses, disposable/additional coveralls.
- PPE used during multi-person activities to be exchanged immediately after the task is completed; Sealed bins to be provided for disposable PPE such as masks, disposable coveralls, disposable gloves, etc.;
- Sealable bags provided to each person for keeping PPE requiring laundering, such as gloves and overalls, and
- Sanitising/washing facilities provided for immediate sanitizing of hard hats, safety glasses, shoes, safety harnesses etc. on completion of multi-person tasks.

2.16.4 Access/egress of site, welfare facilities, meeting areas

The Principal Contractor is to ensure there is suitable and adequate provision to minimize the risk of persons who may be infected with Covid-19 entering the site, the spread of the virus between persons who work on or visit the site and the risk of potentially contaminated persons leaving the site and accessing public spaces or going home to their families. To achieve this, the contractor is required to implement, inter alia the following measures:

- Persons accessing the site in groups to maintain social distancing of at least 1 metre while waiting to access the site.
- Persons waiting to access the site to be segregated from the public where required by the provision of dedicated, prominently identified public pedestrian walkways situated in such a way that social distancing is maintained between site personnel and the public.
- Screening of each person who enters the site with a no-touch infrared thermometer.
- Means of sanitizing each person and their belongings, who access and leave the site.

2.16.5 Alcohol and Drug Testing

Alcohol testing may only be done using single use test units and must be disposed of in the appropriate contaminated waste. Drug testing will only be done by an occupational health facility either using urine or blood sampling. A protocol will be drawn up by the Principal Contractor to manage this with the occupational health service being used.

2.16.6 Medical Surveillance

The normal requirements of pre-placement, periodic and exit medicals will remain, with the Occupational health service providing a methodology of how they will be including factors relating

to Covid-19. No lung functions or peak flows will be done until deemed safe to do so by the South African Thoracic Society.

It is preferable that occupational health service providers use a cloud-based record keeping service to ensure easy tracking and tracing.

Any person who contracts the virus may need to be reported to the Compensation Commissioner as an occupational disease where their work is to monitor and in contact with others. Such details are provided in the Compensation for Injuries and Diseases Act (COIDA).

Isolation of workers who have a temperature or any symptoms, and removal to the closest facility for testing and treatment, through the numbers provided. The Principal Contractor is to ensure their policy on this includes such information.

Workers will be required to complete COVID-19 questionnaires prior to returning to site. Any worker with any symptoms is not to return to work or notify the PC of same.

2.16.7 Ablution Facilities

Ablution facilities are an essential facility that must be available for workers across a site. Facilities are a high-risk area and increased cleaning regimes are required to be introduced. A plan on how this will be done is required, that will cover both portable and permanent facilities. The following are considerations, which include, inter alia:

- Portable toilets to be provided at a 1:10 ratio
- Cleaners to continually clean and have a formal cleaning regime
- Hand washing facilities (soap and water, paper towel) to be available where possible, and if not, to provide hand sanitizer
- Induction training to educate to ensure all users are hand washing correctly
- Flush toilets preferably 1:15 unless increased cleaning regime present.
- Restrict the number of people using toilet facilities at any one time e.g. use a welfare attendant.
- Wash hands before and after using the facilities.
- Enhance the cleaning regimes for toilet facilities particularly door handles, locks and the toilet flush.
- Portable toilets should be avoided wherever possible, but where in use these should be cleaned and emptied more frequently.
- Provide suitable and sufficient rubbish bins for hand towels with regular removal and disposal that need to be managed as hazardous waste.
- Introduce staggered start and finish times to reduce congestion and contact at all times.
- Consider increasing the number or size of facilities available on site if possible, and
- Provide suitable and sufficient rubbish bins in these areas with regular removal and disposal.

2.16.8 Security Access

Public access to site is to be limited at all times, and non-essential visitors are not to be allowed entry. The following aspects are to be included in the plan as to how such issues will be managed, inter alia:

- Monitor site access points to enable social distancing – consideration for the number of access points, either increase to reduce congestion or decrease to enable monitoring.

- Remove or disable entry systems that require skin contact e.g. fingerprint scanners or biometric system.
- Require all workers to wash or clean their hands before entering or leaving the site.
- Ensure social distancing between people waiting to enter site.
- Regularly clean common contact surfaces in reception, office, access control and delivery areas e.g. scanners, turnstiles, screens, telephone handsets, desks, particularly during peak times.
- Reduce the number of people in attendance at site inductions and consider holding them outdoors wherever possible, and

2.16.9 Covid-19 Waste Management

Waste management arrangements to be updated to include provision for the disposal of additional waste generated due to preventative measures implemented. All waste to be managed as hazardous waste.

2.16.9.1 Disposal of any gloves, masks

The contractor shall dispose of all used gloves and masks as hazardous waste and provide sealable bags and containers for the safe disposal of this waste.

2.16.9.2 Paper towels

The contractor shall provide adequate supplies of paper towels on site. At points where these towels are provided lined waste bins to be placed in order to collect all used towels and then to be disposed of in hazardous waste.

2.16.9.3 Disinfectant solution

The contractor to provide adequate supplies of disinfectant on site where the use of water and soap for cleaning is not practical. If disinfectant dispensers are not refilled it should be disposed with other hazardous waste.

2.16.9.4 Wastewater

Wastewater at washing points, toilets, and bathrooms to be contained in a drainage system that prevent surface spills. If wastewater is contained in waste buckets it must be sealed when removed and disinfected after it is cleaned.

2.16.10 Signage

The Principal Contractor is to review all current signs and notices displayed on site. The Principal Contractor is to avoid conflicting messages/notices that have been in place prior to lockdown and review according.

2.16.10.1 Access rules

The contractor shall install additional signage with site rules specific to the prevention of spreading the COVID-19 virus at the access control points of the site.

2.16.10.2 Notices/posters with protocols

Notices and posters shall be placed and installed to raise awareness and regarding protocols to be followed on site. These notices and posters shall be placed conspicuously at various points on the site including the following places:

- Entrance
- Site notice board
- Site Office
- Eating areas
- Next to toilets and bathrooms
- Hand washing stations
- Storerooms

2.16.11 Emergency Planning

An updated emergency plan is to be completed that is in line with the current Regulations of the National Disaster Management Act.

2.16.11.1 First aid

Extra gloves, and disinfectants are to be available, first aiders are to be issued with at least FFPT2 masks should they be required to respond

2.16.11.2 Evacuation plans

Evacuation plans should consider social distancing.

2.16.11.3 Isolation of potentially infected workers

The emergency plan is to consider how anyone who arrives on site and displays any of the symptoms or has a raised temperature.

2.16.11.4 Covid-19 Personal Protective Equipment (PPE)

Availability of personal protective equipment PPE is an imperative and should be available at all times. Where this is not so, the work related to the activity will be stopped until adequate supplies are available.

Storage of PPE is to be tightly controlled, with records of issue. Damaged PPE is to be managed in the usual way, but all to be disposed of as if contaminated.

The hierarchy of control applies with the use of PPE. Specific regard for the type and usage, training and control is to be outlined in the policies and procedures.

2.16.11.5 Masks

Masks are compulsory for all employees, reducing the potential of inhaled COVID-19 droplets. For general administration purposes, for essential staff on site only, cloth masks may be worn. N95 masks are only to be worn by first aiders or high-risk workers, due to the national shortage thereof.

All employees to have access to N95 or FFPT2 masks when required, only in instances of high risk of exposure

All N95 and FFPT2 masks to be disposed with or after 1 day's use. Induction is to include training on the correct use of face masks.

Cloth face masks to be used on entering and leaving the site. It is advised that each worker is supplied with at least 3 cloth face masks. This would assist ensuring that the masks are hygienic (1 on the face; 1 in the wash and 1 as a backup).

The Principal Contractor must ensure that sufficient stock is at all-time available on site. This will also have depended on the type of mask being issued.

All disposable masks are biological waste and must be properly disposed of. This must be disposed in container (locked) or in bags to be either removed as medical biological waste by registered service provider

Clearly identifiable bins indicating biological waste to be provided

2.16.11.6 Face Shields

The Principal Contractor could also look at options such as full-face shields for preventing spreading of virus through eyes. This would assist the employee who is doing hard physical work to breathe more easily but still protecting the mouth, eyes and nose.

Face shields should be cleaned daily before the shift and at the end of the shift. Proper cleaning agents/disinfectant must be used. Face shields should be issued to employees and no sharing is allowed.

2.16.11.7 Overalls

All employees must be issued with 2 overalls (1 overall wearing; 1 overall in the wash). This will ensure that the employee will be able to wear clean hygienic overalls. This must form part of the COVID-19 training for all employees.

2.16.11.8 Hand Gloves

It is preferable that surgical gloves are not worn unless indicated and workers trained in the proper use thereof. Gloves must only be used when the activity demand the wearing of specific type of hand gloves. This will be directed by the Principal Contractor risk assessment.

Site office personnel need to be made aware of the risks in the office environment, this include handling of documents and plans. These employees could be issued with the appropriate hand gloves or sufficient hand wash / sanitising facilities must be available in the site office.

2.16.12 Consequence Management

2.16.12.1 Change Management

The Principal Contractor shall ensure that regular information pertaining to COVID 19 and or any health and safety matters is distributed to ensure that required measures / controls is timeously addressed. There are various information platforms available to the employer and or employee that can assist in keeping them informed:

- Local Authority / Legislation
- World Health Organizations
- Health Care Departments / Health Care Professional's / Centre's / Hospitals

- Public Service Announcements – National News

Each employer is responsible and required to keep his or her employees informed by means but not limited by conducting the following.

- Awareness campaigns -i.e. posters within workplaces
- Daily Site Task Instructions (DSTIs)
- Toolbox talks / Daily briefings
- Meetings
- Company policies / procedures / Employee wellbeing interaction
- Company newsletters
- Telecommunications – Cell phones Apps / e-mail

2.16.12.2 Succession Planning

Employees who are performing specialized work/activities (including plant operators) must be identified. These positions must have alternative employees that could perform these activities. This could mean additional training for these employees.

Key personnel on site should also have competent alternative employees that could perform these functions when needed. Where possible administrative staff should be working from home to limit any opportunistic exposure.

It is very important to understand that the availability of certain essential products and material may not always be available and thus proper planning must be in place to ensure that the activities on site are not interrupted.

Proactive planning must be in place to ensure that the following are ordered and available:

- PPE (cloth face masks, face shields, overalls)
- Hand sanitizers with at least 60% alcohol content
- Disinfectants and cleaning materials

2.16.12.3 Consequences

When non-compliance activities are noted, those activities will be stopped. Should the remedial actions not take place the site will be shut down till the corrective actions have been implemented.

Employees that do not work according to the health and safety specifications and plans must be disciplined according to the company's disciplinary codes and practices.

Supervisory employees on site must ensure compliance, and when non-conformances are noted disciplinary actions should also be followed.

The Principal Contractor should note that they could be fined and even according to the Disaster Management Act, arrested.

2.16.13 Welfare Facilities

The Principal Contractor shall adapt arrangements regarding the provision of welfare facilities to be in line with Government guidelines and requirements.

2.16.13.1 Food Storage

The Principal Contractor shall provide lockable storage for all employees on site, which shall be disinfected daily. Training and awareness to address procedures and the importance of good hygiene practice.

2.16.13.2 Personal Belongings

Apart from extra clean personal clothing no other personal belongings allowed on site except if kept in locker provided by the Principal Contractor.

2.16.13.3 Communal Drinking Facilities

The Principal Contractor shall provide adequate supplies of bottled water to all employees on site. Empty bottles to be disposed of as normal waste. Training and awareness to address procedures and the importance of good hygiene practice. No communal drinking facilities to be shared e.g. cups etc

2.16.13.4 Meetings

The Principal Contractor is to limit the number of employees at all activities to the minimum required to do the work in a safe manner. Where possible meetings must be held in open areas limited to essential personnel. Technological alternatives to be exploited for meeting attendance if possible. Training and awareness to address procedures and the importance of social distancing.

2.16.13.5 Eating Areas

The Principal Contractor is to limit the number of employees at all eating activities to the minimum. Stagger lunchbreaks and resting periods for work teams. Training and awareness to address procedures and the importance of good hygiene practice and social distancing.

Workers are required to stay on site once they have entered it and not use local shops.

Dedicated eating areas should be identified on site to reduce food waste and contamination.

- Break times should be staggered to reduce congestion and contact at all times.
- Hand cleaning facilities or hand sanitiser should be available at the entrance of any room where people eat and should be used by workers when entering and leaving the area.
- Workers should be asked to preferably bring pre-prepared meals and refillable drinking bottles from home.
- Social distancing to be applied whilst eating and avoid all contact.
- Drinking water should be provided with enhanced cleaning measures of the tap mechanism introduced.
- Tables should be cleaned and disinfected between each use.
- All rubbish should be put straight in the bin and not left for someone else to clear up.
- All areas used for eating must be thoroughly cleaned at the end of each break and shift, including chairs, door handles, vending machines and payment devices.

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SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

Requirements

ANNEXURE A

SSHSS item No:	SSHSS Requirements	OHSA Requirements	Submission Date
1	Construction Work Permit	Construction Regulation (CR) 3 Complete Annexure 1 – Client Responsibility.	Immediately upon award of construction contract.
2	Notification of intent to commence Construction	CR 4 Complete Annexure 2 (Construction Regulations)	Before commencement on site.
3	Baseline Risk Assessment and Safety plan.	CR 9(1)(a) CR 7(1) (a)	Submit Baseline Risk Assessment and a Safety Plan with the Tender Document.
4	Assignment of Responsible to Manage and Supervise Construction Work	All relevant appointment, as per OHSA. S16.2, CR 8(1), CR 8(5) CR 8(7) and 8(8)	Before commencement on site.
5	Competency for health and safety position	Client Requirement	Before commencement on site.
6	Compensation of Occupational Injuries and Diseases Act (COIDA) 130 OF 1993	COIDA Requirement, Letter of Good Standing	When Submitting this project tender.
7	Occupational Health and Safety Policy	Client Requirement	Before commencement on site.
8	Health and Safety Organogram.	Client Requirement	Before commencement on site.
9	Health & Safety Representative.	Section 17	Submit as soon as there are more than 20 employees on site
10	Indemnity Agreement and the Mandatory Agreement section 37(2) and CR 5(1) (k)	Client Requirement	Before commencement on site.

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

Assignment of Contractor's Responsible Persons

ANNEXURE B

The Contractor shall make the following appointment but not limited to:

Appointment	OHSA Requirements	Requirements
CEO assignee	Section 16(2)	A competent person to assist with the on-site H&S overall responsibility- Contractors Responsible Person.
Health and Safety Representative(s)	Section 17	A competent person(s) to inspect H&S in reference to plant, machinery and Health & Safety of persons in the workplace.
Health and Safety Committee Member(s)	Section 19	A competent person(s) representing the employer to assist with on site Health and Safety matters.
Safety Officer/ Accident Investigator	CR 8 (5) and (6)	A competent person to manage all safety matters related, do risk assessments and investigate incidents/ accidents on site
Construction Work Supervisor	CR8(7)	A competent person to daily supervise and be responsible of health and safety related issues on site. The person is appointed to assist the CEO with his / her overall duties.
Subordinate (Assistance) Construction Work Supervisor.	CR 8 (8)	A competent person to assist with daily supervises of construction work. The person appointed to assist the construction work supervisor
First Aid Attendant	GSR 3	A qualified person to address all on site first aid cases.
Machinery Inspector	GMR 2	A competent person to supervise machinery
Scaffolding Inspector	CR 16	A competent person to inspect scaffolding before use and every time after bad weather.
Excavation & Demolition Inspector	CR 13 and CR 14	A competent person to inspect daily excavation and demolition work and check if approved safe working procedures are followed at all times.

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SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF
INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL
MUNICIPALITY (NORTHERN CAPE)

ANNEXURE B

Appointment	OHSA Requirements	Requirements
Ladder Inspector	GSR 13 A	A competent person to inspect ladders daily and ensure they are safe for use, keeping monthly records.
Welding, Flame cutting, soldering and similar operations Inspector	GSR 9 (1)(a)	Operators of equipment are to be competent.

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SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

SAFETY FILE CONTENT

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)]”

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.

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

Registers as follows:

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

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

Documents as follows:

Copy of OH&S Act (updated) (General Administrative Regulation 4.)
Proof of Registration and good standing with a COID Insurer (Construction Regulation 4(1)(g))
Appointments – in terms of the Construction Regulations * [See references Page 4]
Notification of Construction Work – Annexure 1 [CR 3]
H&S Specifications [CR 4]
H&S Plan – Principal Contractor, Contractor & Sub-contractors [CR 5(1) & (4)]
Proof of Periodic Audits [CR 4, 5 & 6]
List of all Contractors (accountable to Principal Contractor) on site [CR 5(9)]
Contractor Agreements [CR 5(9)]
Type of work done on site [CR 5(9)]
Records of drawings, designs, materials used and similar information concerning the completed structure [CR 5(8)]
Input by Construction Safety Officer [CR 6(7)]
Risk Assessment [CR 7(1)]
Copy of Risk Assessment [CR 7(2)]
Proof of H&S Induction Training [CR 7(4) & (7) & (9)(b)]
Proof of training on Hazards and Work Related Procedures [CR (7(4))]
Fall Protection Plan [CR 8]
Designer notice to contractor of dangers and hazards relating to construction work [CR 9(2)(b)]
Drawings design of structure [CR 9(3)]
Records of Inspections of Structure [CR 9(4)]
Maintenance records – structure safety [CR 9(5)]
Record Excavation Inspection [CR 11(3)(h)]
Method Statement [CR 11(3)(k)]
Method Statement [CR 12(2)]
Method Statement [CR 12(11)]
Operational Compliance Plan [CR 15(2)(c)]
Certificates, design calculations, sketches and test results [CR 15(3)]
Examination results [CR 15(9)]
Suspended Platform Inspection and Performance Test records [CR 15(11)]

SIOC

SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

Medical Certificate of Fitness [CR 15(12)(b)]
Proof of Training [CR 15(12)(c)]
Material Hoist Inspections [CR17(8)(c)]
Maintenance Records Material hoist [CR17(8)(d)]
Record Batch Plant Maintenance & Repair [CR18(9)]
Register for control of cartridges/nails studs – explosive powered tools [CR19(2)(g)(ii)]
Medical Certificates of Fitness [CR 20(g)]
Medical Certificates of Fitness [CR 21(1)(d)(ii)]
Findings of daily inspections Construction Vehicles & Mobile Plant [CR21(1)(j)]
Record of Temporary Electrical Installation Inspections [CR22(d)]
Record of Electrical Machinery Inspections [CR22(d)]
Proof of Training [CR 27(i)]
Evacuation Plan [CR 27(l)]
H&S Rep & Committee Members details
H&S Committee Meetings' Minutes
Other appointments in terms of OHASA

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

Details of Inspections (by DoL)
Recording and Investigation of Incidents – Annexure 1 [GAR 9(1-3)]
Action taken on all incidents [GAR 9(4)]
Certificates of Competency in First Aid [GSR 3(4)]
Record of Medical Surveillance required in terms of OHASA
Proof of compliance with Asbestos Regulation requirements
Proof of compliance with Major Hazard Installation requirements

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SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

Acknowledgement of receiving the Site Specific Safety Specifications for the – SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

I, _____ representing _____ (Client), have satisfied myself with the content of this Site Health and Safety specification.

Approved by: _____ Date: _____

Name Signature Designation

Acknowledgement of receiving the Site Specific Safety Specifications for the – SITE SPECIFIC HEALTH AND SAFETY SPECIFICATION FOR REPLACEMENT OF INFILL HOUSING IN DIBENG AND OLIFANTSHOEK IN GAMARAGA LOCAL MUNICIPALITY (NORTHERN CAPE)

I, _____ representing _____ (Principal Contractor), have satisfied myself with the content of this Site Health and Safety specification.

Approved by: _____ Date: _____

Name Signature Designation

CHANGES TO STANDARD JBCC GENERAL CONDITIONS OF CONTRACT

1. General Conditions of Contract

The Conditions of Contract shall be the JBCC Series 2000 Principal Building Agreement (Edition 5.0 Code 21.1 July 2007) prepared by the Joint Building Contracts Committee Inc.

2. Particular Conditions of Contract

These Particular Conditions supplement the General Conditions. Whenever there is a conflict the provisions in these Particular Conditions shall prevail over those in the General Conditions.

Please note additional wording / insertions and deletions to the General Conditions are recorded as follows:

2.1. additional wording / insertions are reflected as underlined text; and

2.2. deletions are reflected in strike out.

Clause	Modification / Amendment / Insertion / Deletion
1.1 Definitions and Interpretation	Remove the definition for Construction Guarantee and replace with: Construction Guarantee: a demand guarantee obtained by the contractor from an institution approved by the employer in terms of the employer's pro forma document.
1.1 Definitions and Interpretation	Delete the following definition and all references to such definition throughout the agreement: "Payment Guarantee"
1.1 Definitions and Interpretation	Add the following to the definition of Working Days: The contractor must seek permission from the employer to work after hours and on weekends. After hours are from 6pm to 6am on weekdays (excluding public holidays).
1.9 Definitions and Interpretation	Insert the following new sub clause: If any provision in a definition is a substantive provision conferring rights or imposing obligations on any party, notwithstanding that it appears only in an interpretation clause, effect shall be given to it as if it were a substantive provision of the agreement. In the event that the day for payment of any amount due by the employer in terms of the agreement should fall on a Saturday, Sunday or official public holiday in the country as stated in the contract data, the relevant day for payment shall be the next ordinary business day in the country as stated in the contract data. The use of the word "including" followed by a specific example/s shall not be construed as limiting the meaning of the general wording preceding it and the eiusdem generis rule shall not be applied in the interpretation of such general wording or such specific example/s. Drawings, reports and/or other data and information issued to the contractor by the employer shall, unless specifically otherwise notified in writing by the employer be for information purposes only.

	<p>If any provision of the agreement which is not material to its efficacy as a whole, is rendered void, illegal or unenforceable in any respect under any law, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby and the parties shall endeavour in good faith to agree an alternative provision to the void, illegal or unenforceable provision.</p> <p>Save to the extent expressly otherwise provided for in the agreement no grant by either party to the other of any indulgence, condonation, relaxation, waiver or allowance shall, in respect of any specific event or circumstance other than that in respect of which the grant was made, constitute a waiver of rights of the grantor in terms of the agreement or an estoppel of the grantor's right to enforce the provisions of the agreement.</p>
3.1 Documents	Delete this clause and all references to this clause throughout the agreement.
3.3 Documents	<p>Delete this clause and replace with the following:</p> <p>"The contractor hereby waives and abandons his lien or any other right of retention which he has now or in future may have in respect of the works and shall under no circumstances be entitled to withhold delivery of same to the employer. The contractor warrants that all nominated, selected and domestic subcontractors, mutatis mutandis, shall waive and abandon any such subcontractor's lien or any other right of retention.</p>
3.12 Documents	<p>Add the following clause:</p> <p>3.12.1 The contractor shall maintain up-to-date records and accounts which clearly identify all time and expense relating to the performance of the works and shall make the same available to the employer upon request. The employer may request copies of all such records and accounts which will be provided to the employer by the contractor (subject to reimbursement of the contractor's reasonable copying costs).</p> <p>3.12.2 Not later than two (2) years after the completion of the works or earlier termination of this agreement, the employer can itself, at notice of not less than seven (7) calendar days, require that a firm of accountants nominated by it or quantity surveyors or other auditor audit any amount claimed by the contractor by attending during normal working hours at the office where the records are maintained.</p>
6.1 Contractor's site Representatives	<p>Amend the clause as follows:</p> <p>The contractor shall keep a representative competent to administer and control the works continuously on the site during the execution of the works. The contractor shall inform the principal agent of the name of the representative. <u>The contractor shall not make any changes to the senior management relative to the agreement without the principal agent's express written approval.</u></p>
7.2 Compliance with laws and regulations	<p>Add the following clause 7.2:</p> <p>The contractor undertakes to take all reasonable precautions to maintain the health and safety of the contractor's personnel and others in and about the execution of the works.</p> <p>Without limitation the contractor:</p> <p>7.2.1 undertakes, to comply with the Occupational Health & Safety Act 85 of 1993 ("OHSA") and/or the Construction Regulations 2003 (promulgated under the OHSA) and generally with all applicable health and safety regulations, rules, guidelines and procedures otherwise provided for under the agreement and in law;</p> <p>7.2.2 shall comply with all employer's business principles and shall ensure that the n/s subcontractors, employees and others under the contractor's direction and control, likewise observe and comply with the foregoing;</p> <p>7.2.3 warrants that the contract price includes all amounts necessary for compliance with the laws, regulations and the employer's business principles.</p> <p>The contractor shall indemnify and hold the employer harmless against and from the consequences of any failure by the contractor, its employees, servants, agents, n/s subcontractors and/or suppliers to comply with the requirements of this sub-clause.</p>
8.4 Works Risk	Amend the clause as follows:

	The limit of the contractor's liability shall not exceed the amount of the contract works insurance as stated in the contract data, save and except that the limitation of liability shall not apply where the loss and/or damage is as a result of the contractor's wilful misconduct or fraud, or in respect of any claims relating to death and/or personal injury. This clause shall mutatis mutandis apply to the employer.
8.5.6 Works Risk	Delete this clause and references to this clause throughout the agreement.
8.8 Work Risk	<p>The following clause is added:</p> <p>A party ('First Party') shall not be liable to the other party ('Second Party') in contract (including under any indemnity), delict (including negligence or for breach of statutory duty) or otherwise for any:</p> <p>8.8.1 special, indirect or consequential loss or damages of any nature; or</p> <p>8.8.2 loss of profit, revenue, business, contracts or anticipated savings,</p> <p>('Consequential Loss') related to or connected with this Agreement except:</p> <p>8.8.3 Consequential Loss incurred as a result of the fraud, gross negligence or wilful, reckless or deliberate breach of the agreement by the First Party, its employees, agents or contractors;</p> <p>8.8.4 Consequential Loss forming part of a claim by the Second Party for contribution or indemnity from the First Party in respect of claims by third parties for personal injury, death or property damage; or</p> <p>8.8.5 loss which cannot be excluded by law.</p>
9.2.1 Indemnities	<p>Amend the clause as follows:</p> <p>"A negligent and/or wilful act or omission of the employer, the employer's servants or agents and those for whose acts and omissions they are responsible."</p>
9.2.6 Indemnities	Delete this clause and references to this clause throughout the agreement.
9.2.7 Indemnities	Delete this clause and references to this clause throughout the agreement
10.1.4 General Insurances	<p>The following clause is added:</p> <p><u>Compensation for Occupational Injuries and Diseases</u></p> <p>The contractor shall register and pay assessments timeously under the Compensation for Occupational Injuries and Diseases Act, Act No 130 of 1993 or any amendment thereto or any act passed in substitution thereof.</p> <p>The contractor shall, at its own expense, insure and keep all persons employed by it, who do not fall within the provisions of the Compensation for Occupational Injuries and Diseases Act, Act No. 130 of 1993, insured against all risks of accident or death arising out of their employment.</p> <p>The contractor shall in respect of its workmen keep a record of all particulars prescribed under the Compensation for Occupational Injuries and Diseases Act, Act No 130 of 1993 (or any act passed in substitution thereof) and shall at all reasonable times produce such records on demand to any person authorised to carry out such inspections.</p> <p>The contractor shall furnish proof that it is registered with the Compensation Commissioner by submitting its registration number as well as a Certificate of Good Standing issued by the Compensation Commissioner.</p>
14.1 to 14.5 Securities	<p>Delete clauses 14.1 to 14.5 and replace with:</p> <p>The contractor shall provide a construction guarantee in accordance with the employer's pro-forma construction guarantee.</p>

14.8 Security	Delete this clause and references to this clause throughout the agreement.
14.9 Security	The following clause is added: In the event that the value of the works (inclusive of tax, but excluding adjustments in terms of CPAP), were to increase during the course of the agreement by an amount of fifteen percent (15%) or more of the contract sum, the contractor shall, upon written request from the principal agent, immediately arrange to have the construction guarantee (guaranteed sum) increased accordingly, the verified cost of which shall be added to the contract sum.
15.3 Preparation for and execution of the works	Add the following sentence after sub clause 15.3: The contractor acknowledges that time is of the essence with regard to completion of the works.
18.5 Setting out of the works	Add the following clause: The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries etc, exist in order that the necessary arrangements may be made for the rectification of any such encroachments.
24.5 Practical Completion	Amend the clause as follows: Should the principal agent not issue a practical completion list [24.3.2] or the updated list [24.4.2] within seven (7) calendar days of the end of the inspection period, the contractor shall notify the employer and the principal agent. Should the principal agent not issue such practical completion list within seven (7) calendar days of receipt of such notice, practical completion shall be deemed to have been achieved either:
24.5.1 and 24.5.2 Practical Completion	Delete these clauses and references to these clauses throughout the agreement.
24.7 Practical Completion	Amend the clause as follows: Upon the issue of the certificate of practical completion, the employer shall be entitled to possession of the works and the site subject to the contractor's lien or right of continuing possession of the works
24.8 Practical Completion	Amend the clause as follows: Where the employer at any time takes possession of the whole or part of the works by agreement with the contractor [24.3.1, 28.2.2] prior to the applicable date for practical completion [24.0, 28.0] then practical completion shall be deemed to have taken place <u>with regard to the whole or part of the works that the employer has taken possession of only</u> , and the applicable certificate of practical completion shall be issued.
25.3 Works Completion	Amend the clause as follows: Should the principal agent not issue a works completion list [25.1, 25.2.2] within seven (7) calendar days of the end of the inspection period, the contractor shall notify the employer and the principal agent. Should the principal agent not issue such works completion list within seven (7) calendar days of receipt of such notice, the certificate of works completion shall be deemed to have been issued on the date of expiry of the initial notice period and works completion shall be deemed to have been achieved on such date.
25.4 Works Completion	Amend the clause as follows: Should the works completion list not be completed within a period of ten (10) twenty (20) working days of the issue thereof the contractor shall not be entitled to compensatory interest [31.10] on the value of the outstanding work so listed .
25.5 Works Completion	Amend the clause as follows: The defects liability period [26.1] shall commence with the issue of the certificate of works completion or deemed achievement of works completion [25.2.1 or 25.3]

26.4 Final Completion	Amend the clause as follows: Should the principal agent not issue a defects list [26.2.2, 26.3.2] within seven (7) calendar days from the end of the defects liability period, the contractor shall notify the employer and the principal agent. Should the principal agent not issue such defects list within seven (7) calendar days of receipt of such notice, the certificate of final completion shall be deemed to have been issued on the date of expiry of the initial notice period and final completion shall be deemed to have been achieved on such date.
27.2.1 Latent defects liability period	Amend the clause as follows: Five (5) years from the date of termination [36.0, 39.0, 38.0]
27.2.2 Latent defects liability period	Amend the clause as follows: On the date of termination [37.0, 38.0]
29.1.1 Revision of date for practical completion	Amend the clause as follows: The adverse effect of weather conditions Exceptionally inclement weather, which shall only relate to weather with a degree of inclemency which is materially greater than, or is materially beyond, the average inclemency experienced in the past five (5) years and/or recorded, in terms of available records, or otherwise, at, or for, the area in which the site is situated, for the period(s) in question. Any revision of practical completion which may, in terms of this clause, be allowed for exceptionally inclement weather, shall be related only to those periods of exceptionally inclement weather by which the average periods of time, during which exceptionally inclement weather is experienced and/or recorded in the area in which the site is situated, is exceeded. The contractor is therefore to make allowance for normal vagaries of the weather.
29.1.2 Revision of date for practical completion	Delete this clause and references to this clause throughout the agreement.
29.1.3 Revision of date for practical completion	Delete this clause and references to this clause throughout the agreement
29.3 Revision of date for practical completion	Amend the clause as follows: Further circumstances for which the contractor is entitled to a revision of the date for practical completion are delays to practical completion by any other cause beyond the contractor's reasonable control <u>and that an experienced contractor would not have anticipated and provided for</u> that could not have reasonably been anticipated and provided for. The principal agent shall adjust the contract value where such delay is due to the employer exercising his rights in terms of the agreement or by the default of the employer.
29.3.4 Revision of date for practical completion	Amend the clause as follows: Within twenty (20) working days from the date upon which the circumstance likely to cause delay occurred, contractor became aware or ought reasonably to have become aware of the potential delay the contractor shall notify the principal agent of his intention to submit a claim for a revision to the date for practical completion or any previous revision thereof resulting from such circumstance a delay, failing which the contractor will be deemed to have waived his entitlement to claim contractor's right to claim shall lapse <u>Notwithstanding anything to the contrary, the contractor shall not be entitled to a revision of the date for practical completion or any adjustment to the contract value if and to the extent:</u> 29.4.3.1 <u>the cause, event or circumstance giving rise thereto is attributable to the negligence, error or default of the contractor or any subcontractor;</u> 29.4.3.2 <u>the contractor fails to take all reasonable steps to mitigate the effects of the cause, event or circumstance giving rise thereto.</u>

29.5 Revision of date for practical completion	Amend the clause as follows: The contractor shall, within twenty (20) forty (40) working days of the delay ceasing, submit such claim to the principal agent, failing which the contractor shall forfeit such claim.
31.7 Interim Payment	Amend the clause as follows: Materials and goods certified [31.6] shall become the property of the employer, free from liens and other encumbrances at whichever is the earlier of the following times: 31.7.1 when they are delivered to the site; or 31.7.2 when the contractor is entitled to payment of the value of the materials and goods under clause 31. Materials and goods shall not be removed from the site without the written authority of the principal agent. <u>Notwithstanding the provisions of this clause, the contractor bears the risk of loss or damage to any materials and goods due to any cause other than the employer's wilful misconduct or gross negligence.</u>
31.9 Interim Payment	Amend the clause as follows: The employer shall pay to the contractor the amount certified in an interim payment certificate within thirty (30) seven (7) calendar days of the date for issue of the payment certificate.
31.11 Interim Payment	Delete this clause and references to this clause throughout the agreement
31.15 Interim Payment	Amend the clause as follows: Where the principal agent fails to issue a payment certificate [31.1] or the employer fails to make payment [31.9] the contractor may give three (3) working days' notice <u>as provided for in clause 38.2</u> to suspend the works to the employer, with a copy to the principal agent.
31.16 Interim Payment	Delete this clause and references to this clause throughout the agreement
32.6 Adjustment to the contract value	Amend the clause as follows: The contractor shall notify the principal agent within twenty (20) forty (40) working days from becoming aware or from when he ought reasonably to have become aware from <u>the date upon which the circumstance likely to cause the expense or loss occurred</u> , of such expense and loss [32.5] failing which no compensation will be made. Where such notification has been given:
32.13 Adjustment to the contract value	Amend the clause as follows: Where applicable the contract value shall be adjusted according to CPAP using the information stated in the contract data. <u>Notwithstanding the provisions of sub clause 32.13, or any other clause, all fluctuations in costs shall be for the account of the contractor.</u>
32.16 Adjustment to the contract value	The following clause is added: Where prices are submitted by the contractor or n/s subcontractor, during the progress of the works in respect of contract instructions, or in regard to a claim under the terms of the agreement, and notwithstanding the fact that such prices may be used as an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final payment certificate, it shall be in writing.
34.5	Amend the clause as follows:

Final account and final payment	The principal agent shall issue the final payment certificate within thirty (30) seven (7) calendar days <u>of expiry of the periods set out in 34.3 and 34.4 above to the contractor [34.3-4].</u> Notwithstanding the foregoing such final payment certificate shall not be issued before the issue of the certificate of final completion other than where termination occurs [36.0 or 39.0].
34.10 Final account and final payment	Amend the clause as follows: The employer shall pay to the contractor the amount certified in an final payment certificate within thirty (30) seven (7) calendar days of the date for issue of the final payment certificate.
34.12 Final account and final payment	Delete this clause and references to this clause throughout the agreement
36.1.1 Termination by the employer - Contractor's default	Amend the clause as follows: Fails to comply <u>with any of its obligations in terms of this agreement [3.3, 14.1, 15.1,3]</u>
36.1.3 Termination by the employer - Contractor's default	The following clause is added: Takes any steps to appoint a receiver, a liquidator, a business rescue practitioner, an administrator or other like person to the whole or part of the contractor's assets, operations or business.
38.3 Termination by the contractor - Employer's default	Delete this clause and references to this clause throughout the agreement
39.2 Termination – Cessation of works	Amend the clause as follows: No clause <u>The employer shall be entitled to terminate the agreement, at any time for the employer's convenience, by giving thirty (30) calendar days' notice of such termination to the contractor. The employer shall not terminate this agreement under this clause in order to execute the works himself or arrange for the works to be executed by another contractor.</u>
40.2 Settlement of disputes	Amend the clause as follows: Where such disagreement is not resolved within ten (10) working days of receipt of such notice it shall be deemed to be a dispute and shall be referred by the party which gave such notice to either: either party for final resolution to the Arbitration Foundation of Southern Africa ("AFSA"). Any arbitration commenced pursuant to this sub-clause shall be administered by the AFSA Rules for Commercial Arbitration in force at the time shall apply to the arbitration, which rules are deemed to be incorporated herein by reference, subject to any amendments agreed in writing by the parties and the following rules shall apply: 40.2.1 <u>the arbitration shall be held in Johannesburg,</u> 40.2.2 <u>the language of the arbitration shall be English,</u> 40.2.3 <u>the arbitrator shall be selected by agreement between the parties or, if the parties fail to agree, the person nominated by:</u> (i) <u>in the case of a financial or accounting matter – the Chairman for the time being of the South African Institute of Chartered Accountants; and</u> (ii) <u>for all other matters - the Chairman for the time being of the AFSA,</u> <u>which nomination shall bind the parties;</u>

	<p>40.2.4 <u>the arbitrator's costs shall be payable by the party determined by the arbitrator or as otherwise allocated between the parties as determined by the arbitrator or, in the absence of such a determination, equally by the parties; and</u></p> <p>40.2.5 <u>the number of arbitrators shall be 1 (one).</u></p>
40.3 to 40.6 Settlement of disputes	Delete this clause and references to this clause throughout the agreement
Insert new clause	<p>Right to audit</p> <p>The employer may at any time undertake an audit of the works at the site to ensure that the contractor is fully complying with its obligations in terms of the agreement.</p>



Glazing Calculator

Climate Zone Zone 6
Floor Number 1
Net floor area 49 m²

Net glazed area
Solar Heat Gain
Conductance

Total	Ration/Allowance
8.29 m ²	24.2%
2.0	6.4
35.2	59.3

Conductance Allowance
Solar heat gain allowance

Control Panel
 Print preview
 Next window
 Climate map

GLAZING ELEMENT (glass & frame)

ID	Window Description	Area		Shading		Orientation
		Height (m)	Width (m)	P (m)	H (m)	
1	W01	0.95	1.0	0.71	1.34	South
2	W02	0.95	1.51	0.91	1.34	East
3	W03	1.26	1.51	0.79	1.66	South
4	W03	1.26	1.51	0.79	1.66	North
5	W03	1.26	1.51	0.79	1.66	North

Category	Glass Description	Select frame material
Single-glazed	INSULVUE™ Aquamarine HL SolarVue & ClearVue	Aluminium/Steel
Single-glazed	INSULVUE™ Aquamarine HL SolarVue & ClearVue	Aluminium/Steel
Single-glazed	INSULVUE™ Aquamarine HL SolarVue & ClearVue	Aluminium/Steel
Single-glazed	INSULVUE™ Aquamarine HL SolarVue & ClearVue	Aluminium/Steel

Glazing Element Area	SOLAR HEAT GAIN		
	Total (m ²)	Glass SHGC (NFRC)	Solar exposure factor (E)
0.95 m ²	0.35	0.5	0.31
1.435 m ²	0.35	0.7	0.68
1.903 m ²	0.35	0.5	0.50
1.903 m ²	0.35	0.5	0.50
1.903 m ²	0.35	0.5	0.50
	Err	0.3	0.12

EXTERNAL WALL CALCULATIONS (SANS 204:2011)
CALCULATIONS AS PER SANS 10400XA & SANS204 (WALLS TO BE ENDORSED BY ENGINEER)

OCCUPANCY CLASSIFICATION	H4	NEW DWELLING HOUSE
CLIMATE ZONE	6	OLIFANTSHOEK WELGELEE
WALL TYPE(S)	DOUBLE SKIN MASONRY WALL WITH NO CAVITY PLASTERED INTERNALLY AND EXTERNALLY	
R-VALUES OF WALL TYPES	0.33	
EXTERNAL PLASTER	CONDUCTIVITY (W/MK)	THICKNESS (mm)
	0.6	10
RESISTIVITY (M ² WK)	0.03	
BRICKWORK	0.7	220
INTERNAL PLASTER	0.6	10
	0.03	
TOTAL	240	
	0.39	
CONCLUSION	WALL TYPE COMPLIES WITH MINIMUM TOTAL R-VALUE REQUIREMENT OF 0.35 FOR EXTERNAL WALLS AS PER SANS 204 & SANS 10400XA	

THEORETICAL ANNUAL ENERGY CONSUMPTION CALCULATIONS

LIGHTING

ENERGY DEMAND ALLOWED: 5W/m²

5W/m² x 38.22m² (gross floor area) = 191.1W

2 x 15W external wall mounted lamp = 30W

6x15W ceiling light fitting = 90W

TOTAL = 120W

OR

120W/38.22m² = 3.1397W/m² < (5W/m²)

ENERGY CONSUMPTION

ALLOWED: 5kWh/m².a

5kWh/m².a x 38.22m² = 191.1kWh.a

ASSUME LIGHTS ARE ON FROM 1700hrs-2200hrs each day/year, THAT IS 5hrs/day

365days x 5hrs = 1 825 hrs/year

LAMPS = 120W OR 0.12kW

0.12kW X 1 825hrs = 219.12kWh.a (<3 497.5kWh.a)

- NOTES:**
- ROOF NOTES**
- ROOF PITCH 10 DEGREE
- 26MM CHROME/BLACK BR ROOFING ON SA PINE WOODEN ROOF TRUSSES ON 114X38 SA PINE WALL PLATES INCLUDING 40mm WIRE TIES BUILT INTO BRICKWORK MIN 500mm BELOW WALL PLATE
- CEILING NOTES**
- 4mm NUTEC CEMENT BOARD FIXED TO 38x38mm SA PINE BATTERNS ON MAX 400mm OC
- 60x65mm FIBROUS PLASTER CORNICHE
- WATER/TIGHT TREATMENT FOR KITCHEN & BATHROOM CEILINGS
- FLEXIBLE FIBRE GLASS BLANKET ABOVE CEILING. REFER SANS 204
- 4.5x2.125mm THICKNESS, 10.18kg/m³
- GENERAL NOTES**
1. READ FIGURED DIMENSIONS IN PREFERENCE TO SCALING.
 2. THE CONTRACTOR IS TO VERIFY ALL LEVELS, HEIGHTS & DIMENSIONS ON THE SITE & IS TO CHECK IT AGAINST THE DRAWINGS BEFORE PUTTING ANY WORK IN HAND.
 3. ANY ERRORS, DISCREPANCIES OR OMISSIONS TO BE REPORTED TO DS IMMEDIATELY.
 4. ALL STRUCTURAL STEEL/CONCRETE WORKS TO BE CARRIED OUT AND COMPLY WITH THE DESIGN, WORKING DRAWINGS & SPECIFICATIONS OF THE CONSULTING ENGINEERS.
 5. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THESE DRAWINGS & IS TO COMPLY WITH THE NATIONAL BUILDING REGULATIONS AND SABS STANDARDS AT ALL TIMES.
 6. THE CONTRACTOR IS TO OBTAIN THE WRITTEN APPROVAL FROM OWNER OR CONSULTANTS BEFORE ANY DEVIATIONS FROM THESE DRAWING ARE CARRIED OUT.
 7. ALL ELECTRICAL WORK IS TO COMPLY WITH REQUIREMENTS & STANDARDS OF THE LOCAL AUTHORITY.
 8. ALL PLUMBING WORK IS TO COMPLY WITH THE REQUIREMENTS OF THE NBR & THE LOCAL AUTHORITY.
 9. CONCRETE BRICK PAVING APRON MINIMUM 100mm WIDE TO BE PROVIDED ALONG ALL SIDES OF BUILDINGS IF NO GUTTERS & DOWN PIPES ARE FITTED.
 10. ALL GLAZING TO COMPLY WITH NBR PART N.
 11. STAIRCASE STEP NOTE
 12. TREADS: 250mm MINIMUM. RISERS: 200mm MAXIMUM.
 13. STRENGTH AND STABILITY OF ALL WALLS TO ENGINEERS DESIGN DETAILS.
 14. ALL GARAGE WALLS TO BE FIRE WALLS BUILT TO ROOF HEIGHT.
 15. GARAGE FLOOR TO BE 85mm LOWER THAN SURROUNDING FLOORS.

- DRAINAGE NOTES**
1. ALL PLUMBING WORK TO BE CARRIED OUT BY REGISTERED ARTISANS.
 2. DRAINAGE STRICTLY ACCORDING TO THE NBR.
 3. PRESSURE TESTS MUST BE DONE ON ALL DRAINAGE.
 4. ALL WASTE FITTINGS TO BE FILLED WITH RESAL TRAPS. NO BENDS OR JUNCTIONS PERMITTED UNDER BUILDINGS. ALL DRAINS UNDER BUILDINGS OR WHERE LESS THAN 100mm BELOW GROUND LEVEL, TO BE IN STRAIGHT RUNS, ENCASED IN CONCRETE WITH FLEXIBLE COUPLINGS BOTH ENDS.
 5. MINIMUM FALL OF SOIL DRAINS TO BE 1:80 UNLESS OTHERWISE SHOWN ON DRAWINGS. ALL WASTEWATER PIPES TO BE MINIMUM 50mm DIAMETER.
 6. ALL SOLI WATER PIPES TO BE MINIMUM 100mm DIAMETER.

- GLAZING NOTES**
1. DIMENSIONS OF GLASS TO SABS 9107
 2. NORMAL GLASS THICKNESS: mm 3,4,5,6
 3. 8mm SAFETY GLASS IN ALL SLIDING DOORS AND OTHER GLASS DOORS.
 4. ALL GLASS PANELS IN WINDOWS 500mm & LOWER ABOVE FINISHED FLOOR LEVEL, TO BE SABS APPROVED SAFETY GLASS. SAFETY GLASS BY STARS BELOW 800mm.
 5. VISIBLE MARKERS AT EYE LEVEL ON ALL GLASS DOORS. FROSTED/OPACIFIED GLASS FITTED IN ALL BATHROOMS & TOILETS.
 6. PRECAST CONCRETE LINTELS ACROSS ALL OPENINGS 2100mm AND WIDER AND 2100mm ABOVE FLOOR FINISH. ALL WINDOWS 2100mm ABOVE F.F.L.

- STORMWATER NOTES**
1. STORMWATER DISPOSAL AS PER SANS 10400-R
 2. OPENINGS IN BOUNDARY WALLS TO LEAD STORM WATER AWAY TO BE ACCORDING TO THE NBR.
 3. STORM WATER MUST BE CONSTANTLY LEAD AWAY FROM BUILDINGS TO FALL OF 1:80.
 4. PART R 1-2 SANS 10400-R REGULATIONS
 5. PART RR 1-6 DEEMED TO SATISFY RULES

REVISIONS

REV No	DATE	DESCRIPTION

ARCHITECTS & PRINCIPAL AGENT	CHARISMA DESIGN STUDIO ARCHITECTS
QUANTITY SURVEYORS	RENDEALS FOUR CONSULTING
CIVIL/STRUCTURAL ENG.	RENDEALS FOUR CONSULTING
ELEC/MECHANICAL ENG.	RENDEALS FOUR CONSULTING
CONTRACTOR	
END USER CLIENT	GAMAGARA LOCAL MUNICIPALITY

CODE	D1	D2	D3	D4	D5
QUANTITY	01	01	01	01	01
ORIENTATION	L	R	L	L	L
CONSTRUCTION	SWARTLAND WINSTER PD8 PLY PANEL HARDWOOD DOOR, OVERALL SIZE 813X2032mm HIGH	SWARTLAND WINSTER PD8 PLY PANEL HARDWOOD DOOR, OVERALL SIZE 813X2032mm HIGH	SAPLE INTERIOR LIGHT HOLLOWCORE FLUSHVDOR(CODE:91104), SIZE 813X2032x40mm THICK WITH BOTH STILES WITH EXPOSED EDGES.MANUFACTURED IN ACCORDANCE WITH SANS 545:1989	SAPLE INTERIOR LIGHT HOLLOWCORE FLUSHVDOR(CODE:91104), SIZE 813X2032x40mm THICK WITH BOTH STILES WITH EXPOSED EDGES.MANUFACTURED IN ACCORDANCE WITH SANS 545:1989	SAPLE INTERIOR LIGHT HOLLOWCORE FLUSHVDOR(CODE:91104), SIZE 813X2032x40mm THICK WITH BOTH STILES WITH EXPOSED EDGES.MANUFACTURED IN ACCORDANCE WITH SANS 545:1989
DOOR FINISH	3x COATS WOODGARD INTERIOR/EXTERIOR TIMBAVARNISH ALKYDE VARNISH TO EXTERIOR WOOD (CODE:G133-0810)	3x COATS WOODGARD INTERIOR/EXTERIOR TIMBAVARNISH ALKYDE VARNISH TO EXTERIOR WOOD (CODE:G133-0810)	3x COATS WOODGARD INTERIOR/EXTERIOR TIMBAVARNISH (WATER BASED) ALKYDE VARNISH(COLOUR TO BE SELECTED) TO INTERIOR WOOD WITH AN OVERCOATING TIME OF 4 HOURS	3x COATS WOODGARD INTERIOR/EXTERIOR TIMBAVARNISH (WATER BASED) ALKYDE VARNISH(COLOUR TO BE SELECTED) TO INTERIOR WOOD WITH AN OVERCOATING TIME OF 4 HOURS	3x COATS WOODGARD INTERIOR/EXTERIOR TIMBAVARNISH (WATER BASED) ALKYDE VARNISH(COLOUR TO BE SELECTED) TO INTERIOR WOOD WITH AN OVERCOATING TIME OF 4 HOURS
WXH SIZE	813X2032	813X2032	813X2032	813X2032	813X2032
FRONT VIEW					
DOOR HANDLE SET	THREE-LEVER LOCKSET LA953/3L WITH CHROME PLATED FINISH	THREE-LEVER LOCKSET LA953/3L WITH CHROME PLATED FINISH	TWO-LEVER LOCKSET LA953/2L (SKL) WITH CHROME PLATED FINISH	TWO-LEVER LOCKSET LA953/2L (SKL) WITH CHROME PLATED FINISH	TWO-LEVER LOCKSET LA953/2L (SKL) WITH CHROME PLATED FINISH
DOOR STOP	ALUMINIUM DOOR STOPPER(CODE: AL8730AS) WITH ANODISED SILVER FINISH	ALUMINIUM DOOR STOPPER(CODE: AL8730AS) WITH ANODISED SILVER FINISH	NONE	NONE	NONE
DOOR FRAME	BETCRETE'S POLYCRETE DOOR FRAME FITTED TO THE CENTRE OF 220mm BRICKWALL	BETCRETE'S POLYCRETE DOOR FRAME FITTED TO THE CENTRE OF 220mm BRICKWALL	BETCRETE'S POLYCRETE DOOR FRAME FITTED TO THE CENTRE OF 110mm BRICKWALL	BETCRETE'S POLYCRETE DOOR FRAME FITTED TO THE CENTRE OF 110mm BRICKWALL	BETCRETE'S POLYCRETE DOOR FRAME FITTED TO THE CENTRE OF 110mm BRICKWALL
DOOR SILL	BETCRETE'S POLYCRETE DOOR SILL	BETCRETE'S POLYCRETE DOOR SILL	NONE	NONE	NONE

DOOR SCHEDULE
SCALE: 1 : 50

U/S LINTEL	Dimensions		
	1 022	1 511	1 511
QUANTITY	01	01	03
FRAME	STEEL	STEEL	STEEL
TITLE	NCTX7S	NCTX7S5	TD151
POSITION	BATHROOM	KITCHEN	BEDROOMS AND DINING ROOM
GLAZING	5mm OBSCURE SAFTY GLASS	5mm CLEAR SAFTY GLASS	5mm CLEAR SAFTY GLASS

WINDOW SCHEDULE
SCALE: 1 : 50

CLIENT

SIOC-CDT Office Park,
Block A, Ground Floor
cnr Hendrick van Eck Road & Ian Flemming Str
Kathu,8446

END USER CLIENT

Gamagara Local Municipality
Civic Centre cnr of Hendrick van Eck and Frikkie Meyer Road
Kathu,8446
Tel : +27 053 723 6000
Fax : +27 053 723 2021

AREA SCHEDULE:
FLOOR AREA:49,4m²

PROJECT

UPGRADE OF INFILL HOUSING IN OLIFANTSHOEK WELGELEE

DISCIPLINE PROJECT STAGE

ARCHITECTURE 4

WORK DESCRIPTION: SUB-DIVISION

WORKING DRAWING

DRAWING TITLE

FENESTRATION CALCULATIONS, DOORS AND WINDOW SCHEDULES

FILE No.		ITEM No.	
DESIGN	Eliak M Motshweni		
SCALE	INDICATED	JOSEPH SURE	CHECKED
SCALE		RESPONSIBLE PROFESSIONAL SIGNATURE	PR. NUMBER
		JOSEPH SURE	7735 (SACAP)

CAD SYSTEM	REVIT ARCHITECTURE	201901-A-200	FILE NAME
SHEET SIZE		DRAWING NUMBER	REV
A1		201901-A-200	