

PROVINCE OF THE NORTHERN CAPE

DEPARTMENT OF ROAD AND PUBLIC WORKS



the dr&pw

Department:
Roads and Public Works
NORTHERN CAPE PROVINCE
REPUBLIC OF SOUTH AFRICA

PROCUREMENT DOCUMENTS
FOR
NURSING COLLEGE KIMBERLEY PHASE 2A
FOR
DEPARTMENT OF HEALTH

CLIENTS REPRESENTATIVE

Jewis September

Tebogo Leon Tume Complex
9 – 11 Stokroos Street
Square Hill Park
KIMBERLEY, 8301

Email: jseptember@ncpg.gov.za
Tel: 053 839 2100
Cell: 053 839 2100

AGENT (1)

Architects

HOSPITAL DESIGN GROUP
57 Warden Street
Harrismith
9880

Email: braam@hdg.co.za
Tel: 058 622 3942

PRINCIPAL AGENT

HOSPITAL DESIGN GROUP

57 Warden Street
HARRISMITH
9880

Email: braam@hdg.co.za
Tel: 058 622 3942
Cell: 084 299 2908

AGENT (2)

Quantity Surveyor

INNOVEX CHARTERED QS & PM
Boardwalk Office Park Suites
95 Eros Street, Faerie Glen
Pretoria

Email: zenda@innovex-group.co.za
Tel: 012 663 1250

BID NR: DRPW 001/2023
CLOSING DATE: 21 JUNE 2023
CLOSING TIME: 11:00

BIDDER'S NAME :

REFERENCED INDEX TO PARTS OTHER THAN BILLS OF QUANTITIES

The following index has been included for ease of paginating the document.

FORM OF OFFER AND ACCEPTANCE	2
PART T1: TENDERING PROCEDURES.....	9
T1.1- Notice and Invitation to Tender	10
Notice and invitation to tender.....	11
T 1.2 - Tender Data	14
T1.2- TENDER DATA	15
PART T2: RETURNABLE DOCUMENTS.....	26
T2.1- List of Returnable Documents	27
Resolution of Board of Directors	29
Resolution of Board of Directors to Enter into Consortia or Joint Ventures.....	31
Special Resolution of Consortia or Joint Ventures.....	34
Schedule of Proposed Subcontractor	38
Capacity of Tenderer.....	40
Preference Certificate	44
Site Inspection Meeting Certificate	50
Declaration of Interest.....	52
Record of Addenda to Tender Documents	56
Particulars of Electrical Contractor.....	58
SPECIAL CONDITIONS OF TENDER	60
Local Content Declaration.....	63
DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS	64
Compulsory Enterprise Questionnaire	73
PART C1 : CONTRACT DATA	77
Contract Data: JBCC 2000 Principal Building Agreement	79
Fixed Construction Guarantee – JBCC.....	94
Variable Construction Guarantee – JBCC	97
PART C3: SCOPE OF WORKS.....	101
Scope of Works – JBCC	102
Health and Safety Specification	104
PART C4: SITE INFORMATION.....	112
Site Information – JBCC.....	114
C2.2- Bills of Quantities.....	118

FORM OF OFFER AND ACCEPTANCE

FORM OF OFFER AND ACCEPTANCE

OFFER

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

NURSING COLLEGE KIMBERLEY PHASE 2A

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

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

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

Rand (in words):	
Rand in figures:	R

VAT IS TO BE INCLUDED EVEN IF THE TENDERER IS A NON VAT VENDOR

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

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

Company or Close Corporation: And: Whose Registration Number is: And: Whose Income Tax Reference Number is:	OR	Natural Person or Partnership: Whose Identity Number(s) is/are: Whose Income Tax Reference Number is/are:
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AND WHO IS (if applicable):

Trading under the name and style of:
--

AND WHO IS:

Represented herein, and who is duly authorised to do so, by: Mr/Mrs/Ms: In his/her capacity as:	Note: A Resolution / Power of Attorney, signed by all the Directors / Members / Partners of the Legal Entity must accompany this Offer, authorising the Representative to make this offer.
---	---

SIGNED FOR THE TENDERER:

Name of representative	Signature	Date

WITNESSED BY:

--	--	--

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

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

The official documents ☐

The official alternative ☐

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

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

SECURITY OFFERED:

(a) the Tenderer accepts that in respect of contracts from R 500 000 and up to R 1 million, a surety of 2% of the contact value (excluding VAT) will be applicable and will be deducted by the Employer in terms of the applicable conditions of contract

(b) in respect of contracts above R 500 000, the Tenderer offers to provide security as indicated below:

(1) cash deposit of 10 % of the Contract Sum (excluding VAT) Yes ☐ No ☐

(2) variable construction guarantee of 10 % of the Contract Sum (excluding VAT) (DPW 10.3) Yes ☐ No ☐

(3) payment reduction of 10% of the value certified in the **payment certificate** (excluding VAT) Yes ☐ No ☐

(4) cash deposit of 5% of the **contract sum** (excluding. VAT) and a payment reduction of 5% of the value certified in the **payment certificate** (excluding. VAT) Yes ☐ No ☐

(5) fixed **construction guarantee** of 5% of the **contract sum** (excluding VAT) and a payment reduction of 5% of the value certified in the **payment certificate** (excluding VAT) Yes ☒ No ☐

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

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

Other Contact Details of the Tenderer are:

Telephone No	Cellular Phone No.
Fax No	Other contact No.
Postal address:	
Main or Principal Place of Business: E-mail Address :	
Registered Place of Business:	

.....
Banker Branch.....
Registration No of Tenderer at Department of Labour
CIDB Registration Number: (Attached copy of certificate)
CSD Number:.....SARS Pin.....

ACCEPTANCE

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

The terms of the contract, are contained in:

- Part 1 Agreement and contract data, (which includes this agreement)
- Part 2 Pricing data
- Part 3 Scope of work
- Part 4 Site information

and drawings and documents or parts thereof, which may be incorporated by reference into Parts 1 to 4 above.

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

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

Notwithstanding anything contained herein, this agreement comes into effect, if delivered by hand on the day of delivery, or if delivered by courier within two working days after submission by the Employer to the courier services for a door-to-door delivery to the Tenderer, provided that the Employer notifies the Tenderer of the tracking number within 24 hours of such submission, or if delivered by telefax, one working day after transmission, or if delivered by email, one working day after transmission.

For the Employer:

Name of signatory	Signature	Date

Name of Organisation:	DEPARTMENT OF ROADS AND PUBLIC WORKS
Address of Organisation:	Tebogo Leon Tume Complex 9-11 Stokroos Street Square Hill Park KIMBERLEY, 8301

WITNESSED BY:

Name of witness	Signature	Date

Schedule of Deviations

1.1.1. Subject:
Detail:

1.1.2. Subject:
Detail:

1.1.3. Subject:
Detail:

1.1.4. Subject:
Detail:

1.1.5. Subject:
Detail:

1.1.6. Subject:
Detail:

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

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

THE TENDER

PART T1: TENDERING PROCEDURES

T1.1- Notice and Invitation to Tender

Notice and invitation to tender

THE DEPARTMENT OF ROADS & PUBLIC WORKS INVITES TENDERS FOR:

Project Title:	NURSING COLLEGE KIMBERLEY PHASE 2A		
Bid No:	DRPW 001/2023	Closing Time:	11:00
Closing Date:	21 JUNE 2023	Validity Period:	90 Days
Tenderers should have a CIDB contractor grading of		9 GB	

RESPONSIVENESS CRITERIA	
√	Only those tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of submission, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered for the specified CLASS and RANGE of construction works are eligible to submit tenders.
√	Joint ventures are eligible to submit tender provided that: <ol style="list-style-type: none"> every member of the joint venture is registered with the CIDB The lead partner has a contractor grading designation one grade lower in the value or higher as indicated above; and The combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for this project. A Joint Venture Agreement <u>must</u> be submitted with the tender in the case of a joint venture offer.
√	Tender offer must be properly received on the closing date and time specified on the invitation, fully completed and signed in ink (All as per Standard Conditions of Tender).
√	Submission of applicable: Resolution by the Legal Entity or Consortium / joint venture, authorising a dedicated person(s) to sign documents on behalf of the Firm / Consortium / joint venture.
√	Submission of (NCP 4) DECLARATION OF INTEREST.
√	Submission of other compulsory returnable schedules / documents as per LIST OF RETURNABLE DOCUMENTS.
√	Submission of SITE INSPECTION CERTIFICATE as proof for attendance of compulsory site meeting.
√	Submission of PRICED BILL OF QUANTITIES WITH THE TENDER
√	No bidder or any of its consortium/joint venture members may have an interest in any of the other bidder/joint venture/consortium participation in this bid." Bidders may be disqualified should such be found in your bid submission.

Tender will be evaluated according to the price and specific goals:

The 80/20 system for requirements with a Rand value of up to R50 000 000; OR
 The 90/10 system for requirements with a Rand value above R50 000 000.

Where the financial value inclusive of VAT of one or more responsive tenders received equals or is less than R 50 000 000, the 80/20 system shall be applicable.

Where the financial value inclusive of VAT of all responsive tenders received has a value in excess of R 50 000 000, the 90/10 system shall be applicable.

Price / Preference / Functionality:

Requirement	≤ R50 000 000	> R50 000 000		
Price	80	90	Total must equal	100
Preference	20	10		
Functionality	0 of 80	0 of 90		

Table1: Specific goals for the tender and points claimed are indicated per table below.

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

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

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/10 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/10 system) (To be completed by the tenderer)
Enterprise with ownership of 51% or more by person/s who are black person/s	90	10		

collection of tender documents:

DEPOSIT	The document is available at www.etenders.gov.za as the department does not print out the document nor sell the document is payable and is required on collection of the tender documents.
INSPECTION	Compulsory Clarification Meeting – 05 JUNE 2023 at 11H00 at the New Mental Health Facility at the EMS Building boardroom on the R31

Enquiries related to tender documents may be addressed to:

Dept Project Leader:	Jewis September	Telephone no:	053 839 2100
Cell no:	+27 83 651 1213	Fax no:	053 839 2291
E-mail:	jseptember@ncpg.co.za		

Deposit / RETURN of tender documents:

POSTED TO	<p>Tender document may be posted to:</p> <p>THE HEAD OF SCM</p> <p>DEPARTMENT OF ROADS AND PUBLIC WORKS</p> <p>Tebogo Leon Tume Complex 9-11 Stokroos Street Square Hill Park KIMBERLEY, 8301</p> <p>ATTENTION: Mr. V Sidumo OR</p> <p>Tender documents may be posted in the tender box outside the main entrance:</p> <p>Tebogo Leon Tume Complex 9-11 Stockroos Street Square Hill Park KIMBERLEY, 8301</p>
<p>Telegraphic, telephonic, telex, facsimile, electronic and / or late tenders will not be accepted.</p>	
<p>Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the TENDER DATA (T 1. 2)</p>	

T 1.2 - Tender Data

T1.2- TENDER DATA

The department of roads & public Works invites tender FOR:

Project Title:	NURSING COLLEGE KIMBERLEY PHASE 2A		
Bid No:	DRPW 001/2023	Closing Time:	11:00
Closing Date:	21 JUNE 2023	Validity Period:	90 days

CLAUSE NUMBER	DETAIL
	<p>The conditions of tender are the Standard Conditions of Tender as contained in Annexure F of the CIDB Standard for Uniformity in Construction Procurement as per Government Notice No 751 Published in Government Gazette No. 27831 of 22 July 2005 and as amended for time to time. (see. www.cidb.org.za)</p> <p>The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the Standard Conditions of Tender.</p> <p>Each item of data given below is cross-referenced to the clause marked 'F' in the above-mentioned Standard Conditions of Tender.</p>
F.1.1	The employer is the Government of the Republic of South Africa in its Northern Cape Provincial Government, represented by the Accounting Officer of the Northern Cape Department of Roads & Public Works.
F.1.2	<p>For this contract the single volume approach is adopted.</p> <p>This procurement document has been formatted and compiled under the headings for a single volume approach as contained in table 6 of the CIDB's "Standard Uniformity in Construction Procurement."</p> <p>The list of Returnable Documents identifies which of the documents a tenderer must complete when submitting a tender offer. The tenderer must submit his tender offer by completing the Returnable Documents including the Fully Priced Activity Schedule/ Bills of Quantities, signing the "Offer" section in the Form of Offer and Acceptance" and delivering the single volume procurement document back to the Department bounded up as it was when it was received.</p> <p>The single volume procurement document issued by the employer comprises the following:</p> <p>TENDER Part 1: Tendering Procedures T1.1 – Tender notice and invitation to tender (Refer to index) T1.2 – Tender data (Refer to index)</p> <p>Part 2: Returnable Documents T2.1 – List of returnable documents (Refer to index) T2.2 - Returnable Schedules</p> <p>CONTRACT Part 1: Agreement and Contract Data C1.1 – Form of offer and acceptance (Refer to index) C1.2 – Contract data (Refer to index) C1.3 – Form of Guarantee (Refer to index)</p> <p>Part 2: Pricing Data C2.1 – Pricing instructions (Refer to index) C2.2 - Activity schedules / Bills of Quantities</p> <p>Part 3: Scope of Work C3 – Scope of work (Refer to index)</p> <p>Part 4: Site Information C4 – Site information (Refer to index)</p>

F.1.4	The employer's agent is:	
	Name	Jewis September
	Capacity	PROJECT LEADER
	Address	Tebogo Leon Tume Complex 9-11 Stokroos Street Square Hill Park KIMBERLEY, 8301
	Tel:	053 839 2100 / 079 038 3057
	Fax	053 839 2291
	E-mail	jseptember@ncpg.gov.za
F.1.5.2	Insert the following: "..... tender offers, <u>save for all tenders being non responsive</u> , re-issue a tender covering	
F.2.1	For eligibility refer to Notice and Invitation to Tender T1.1.	
	<p>A contract will only be entered into with a tenderer who has in his employment management and supervisory staff satisfying the requirement of the scope of works for labour intensive competencies for supervisory and management staff – <i>NOT APPLICABLE</i>.</p> <p>Only those tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of Submissions in a GENERAL BUILDING class of construction, in the grading mentioned in the Notice and Invitation to Tender (T1.1), are eligible to submit tenders.</p> <p>Tender offers scoring less than a minimum of 75% in respect of the total evaluation points for quality will be regarded as non-responsive.</p> <p>NOTE: THIS SPECIAL CONDITIONS OF TENDER IS REGARDED AS A REPONSIVNESS CRITERIA, THUS FAILURE TO COMPLETE AND COMPLY WILL LEAD TO THE DISQUALIFICATION OF YOUR TENDER</p> <p><u>Individuals must be identified for each of the key personnel listed below.</u></p> <p>In order to be considered for an appointment in terms of this tender, the tenderer must have the Following key personnel who will be the single-point of accountability and responsibility for the management of the construction works in its employment at the close of tender. Alternatively, a signed undertaking from an organisation having the required personnel, stating that they will undertake the necessary work on behalf of the tenderer in terms of a sub-consultant agreement, will be acceptable.</p> <p>Key Personnel: Contracts Manager Where the key personnel are no longer accessible to undertake the necessary work after the award of the tender, the contractor shall within a period of 10 working days replace the key personnel listed in T2.2d with a person with equivalent competencies and subject to approval by the employer. Such approval shall not be unreasonably withheld.</p> <p>A suitably qualified and experienced contracts manager who will be the single-point of accountability and responsibility for the management of the construction works and who possesses, as a minimum, either of the following qualifications and experience:</p> <p>A: Individual experience as table A1 clause F.2.1</p> <ul style="list-style-type: none"> • A degree (NQF Level 7) in the built environment with a minimum of 10 years' experience Or • A National Diploma/Advanced Certificate (NQF Level 6) in the built environment with a minimum of 15 years' experience <p>B: Project experience as table A1 clause F.2.1 The Curriculum Vitae of the contracts manager, must be submitted with the tender submission, appended to Schedule T2.2d. Bidders are referred to clause F.2.1 of this tender data for the requirements regarding</p>	

submission of certificates of qualifications of key personnel

Key Personnel: Construction Manager/Supervisor

Where the key personnel are no longer accessible to undertake the necessary work after the award of the tender, the contractor shall within a period of 10 working days replace the key personnel listed in T2.2e – Construction Manager/Supervisor with a person with equivalent competencies and subject to approval by the employer. Such approval shall not be unreasonably withheld.

A suitably qualified and experienced Construction Manager/Supervisor and who possesses as a minimum the following qualifications:

A: Individual experience as table A2 clause F.2. 1

- A Trade Certificate (NQF Level 4) in the built environment with a minimum of 10 years' experience

B: Project experience as table A2 clause F.2. 1

- The Curriculum Vitae of the Construction Manager/Supervisor must be submitted with the tender submission, appended to Schedule T2.2e. Bidders are referred to clause C.2.23.2 of this tender data for the requirements regarding submission of certificates of qualifications of key personnel.

Key Personnel: SHEQ Officer

Where the key personnel are no longer accessible to undertake the necessary work after the award of the tender, the contractor shall within a period of 10 working days 11 replace the key personnel listed in T2.2f – SHEQ Officer with a person with equivalent competencies and subject to approval by the employer. Such approval shall not be unreasonably withheld.

A suitably qualified and experienced SHEQ Officer and who possesses as a minimum the following qualifications:

A: Individual experience as Table A3 clause F.2. 1

- A Registration Certificate with SACPCMP as a Health and Safety Officer in the built environment with a minimum of 10 years' experience

B: Project experience as table A3 clause F.2. 1

- The Curriculum Vitae of the SHEQ officer must be submitted with the tender submission, appended to Schedule T2.2f. Bidders are referred to clause C.2.23.2 of this tender data for the requirements regarding submission of certificates of qualifications of key personnel.

Bank Rating

In order to be eligible for award in terms of this tender, tenderers must submit a bank rating from a recognized financial institution (not older than 3 months at tender closing date) which indicates that the bidder possesses the minimum following bank code;

- Bank rating of minimum Code C: Good for amount quoted if strictly in the way of business – Unlikely to commit themselves beyond their means

Financial Statements

In order to be eligible for award in terms of this tender, tenderers must submit signed audited statements of the last three years.

Bidders must take note of the following;

The amount of enquiry on the bank rating letter must be equal to the sum of the amount tendered (including VAT) or higher.

A tender shall not be evaluated further under the following conditions;

1.A bidder who fails to provide a bank rating letter.

- Bidders who fail to satisfy any of the above eligibility criteria contained in clause C.2.1 shall be deemed to be non-responsive and their bids shall not be considered further. Bidders shall not be provided a second opportunity by the employer to submit any information in relation to any of the above eligibility criteria where such information is not provided by the bidder, bound within the bid submission, on the date and time of the bid closing.

Replace Clarification with Compulsory Briefing.

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

If a tenderer wishes to submit an alternative tender offer, the only criteria permitted for such alternative tender offer is that it demonstrably satisfies the Employer's standards and requirements, the details of which may be obtained from the Employer's Agent.

Calculations, drawings and all other pertinent technical information and characteristics as well as modified or proposed Pricing Data must be submitted with the alternative tender offer to 12 enable the Employer to evaluate the efficacy of the alternative and its principal elements, to take a view

on the degree to which the alternative complies with the Employer's standards and requirements and to evaluate the acceptability of the pricing proposals. Calculations must be set out in a clear and logical sequence and must clearly reflect all design assumptions. Pricing Data must reflect all assumptions in the development of the pricing proposal. Acceptance of an alternative tender offer will mean acceptance in principle of the offer. It will be an obligation of the contract for the tenderer, in the event that the alternative is accepted, to accept full responsibility and liability that the alternative offer complies in all respects with the Employer's standards and requirements.

The modified Pricing Data must include an amount equal to 5% of the amount tendered for the alternative offer to cover the Employer's costs of confirming the acceptability of the detailed design before it is constructed.

Alternative tender offer permitted: Yes No ☐ ☐

Replace sub-clause F.2.1 with the following;

Return all returnable documents to the employer after completing them in their entirety by writing in non-erasable black ink

Parts of each tender offer communicated on paper shall be submitted as an original, plus 1 (one) copy.

The tender shall be signed by a person duly authorized to do so. Tenders submitted by joint ventures of two or more firms shall be accompanied by the document of formation of the joint venture, in the form of a joint venture agreement, in which it is defined precisely the conditions under which the joint venture will function, its period of duration, the persons authorized to represent and obligate it, the participation of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. Failure to provide the joint venture agreement, bound with the tender submission, on the date and time of the closing of the bid, shall render the tender non-responsive.

The tender offer validity period is 90 days.

A tender may be rejected as non-responsive if the tenderer fails to provide any clarification requested by the employer within the time for submission stated in the employer's written request for such clarification. The clarification of a tender offer includes the provision of the priced bills of quantities (Part C2.2: Bills of Quantities).

The tenderer shall, when requested by the Employer to do so, submit the names of all management and supervisory staff that will be employed to supervise the Labour Intensive portion of the works together with satisfactory evidence that such staff members satisfy the eligibility requirements.

Access shall be provided for inspections, tests and analysis as may be required by the Employer refer to PW371
Not a requirement.

Certificates Confirming Educational Qualifications of Key Personnel

Tenderers are required to submit certified copies of educational qualifications of key personnel. A certified copy is considered to be valid when the certification is less than three months old on the date of closing of bids. Failure to submit certified copies of key personnel qualifications will result in the bid being deemed non-responsive

Letter of Good Standing

Tender are required to submit, bound with the tender submission, a letter of good from the compensation commissioner indicating that the bidder is in good standing. Failure to submit will result in the bid not being evaluated further.

Notwithstanding any requests for confirmation of receipt of Addenda issued, the tenderer shall be deemed to have received such addenda if the employer can show proof of transmission thereof (or a notice in respect thereof) via electronic mail, facsimile or registered post.

Bidders will be considered non-responsive if, inter alia:

1. The bidder has failed to attend the compulsory briefing meeting and failed to submit a fully completed briefing session certificate; After the briefing session, a signed briefing certificate will be issued to all the bidders who attended the briefing session.
2. The bid is submitted by Telegraphic, telephonic, telex, facsimile (faxed) or email media or if the tender is submitted late.
3. The bidder does not comply with the eligibility criteria listed in F2.1 above;
4. The resolution for signatory is not attached to the tender submission on a company

- letterhead.
5. The bidder has failed to fully complete and sign SBD1, SBD4, SBD 6.2, Annex C, SBD8 & SBD9.
 6. The bidder failed to comply to TAX obligations at the award of the bid.

Stage 1 Functionality

Functionality of responsive bids submitted will be evaluated according to the predetermined criteria described below.

A bid will not be evaluated further if it fails to meet the minimum threshold of total 75 points out of maximum 100 points for functionality as prescribed in the following tables and a minimum of 50% per sub-section

	FUNCTIONALITY CRITERIA	POINTS ALLOCATED
A	Key personnel A1 Contracts Manager	25
B	Key personnel A2 Construction Manager/Supervisor	15
C	Key personnel A3 Site SHEQ officer	10
D	Experience	50
E	TOTAL	100

A Key Personnel		
Points are allocated for required competencies and qualifications of allocated personnel for the project in consideration / Required key personnel are Contracts Manager, Construction Manager/ Supervisor and Site SHEQ Officer		
A1 Contract Manager		
Description of Criteria - Qualifications	Points	Total points
Qualification : BTech/Degree in the Built Environment field of study as C.2.1.4 intender data	10	10
Qualification : National Diploma in the Built Environment field of study as C.2.1.4 in tender data	5	
The tenderer has failed to address the question and has not proved qualification of the proposed contract manager	0	
Description of Criteria - Experiences	Points	Total points
Five (5) or more projects. Contract management experience on projects with minimum value of R200 million each or above appointed as contract manager	15	15
Three (3) to Four (4) projects. Contract management experience on projects with minimum value of R200 million each or above appointed as contract manager	10	
One (1) to Two (2) projects. Contract management experience on projects with minimum value of R200 million each or above appointed as contracts manager	5	

The tenderer has failed to address the question and has not proved experience of the proposed contract manager	0	
SUB-TOTAL A1	25	
A2 Construction Manager / Supervisor		
Description of Criteria - Qualifications	Points	Total points
Qualification : Trade certificate in the Built Environment field of study as C.2.1.5 in tender data	5	5
The tenderer has failed to address the question and has not proved qualification of the proposed Construction Manager/Supervisor	0	
Description of Criteria – Experiences	Points	Total points
Five (5) or more projects. Construction management experience on projects with minimum value of R200 million each or above appointed as Construction Manager / Supervisor	10	10
Three (3) to Four (4) projects. Construction management experience on projects with minimum value of R200 million each or above appointed as Construction Manager/Supervisor	8	
One (1) to Two (2) projects. Construction management experience on projects with minimum value of R200 million each or above appointed as Construction Manager/Supervisor	4	
The tenderer has failed to address the question and has not proved experience of the proposed Construction Manager/ Supervisor	0	
SUB-TOTAL A2	15	
A3 Site SHEQ Officer		
Description of Criteria - Qualifications	Points	Total points
Qualification : A Registration Certificate with SACPCMP as C.2.1.6 in tender data	4	4
The tenderer has failed to address the question and has not proved qualification of the proposed SHEQ Officer	0	
Description of Criteria - Experience	Points	Total points
Five (5) or more projects. SHEQ experience on projects with minimum value of R100 million each or above appointed as Site SHEQ Officer	6	6
One (1) to Four (4) projects. SHEQ experience on projects with minimum value of R100 million each or above appointed as SHEQ Officer	3	
The tenderer has failed to address the question and has not proved experience of the proposed SHEQ Officer	0	
SUB-TOTAL A3	10	
TOTAL A		50

	<p>Stage 2 Price and Specific Goals</p> <p><i>Add the following:</i> The financial offer will be scored using the following Formula:</p> $P_s = 90 \left[1 - \frac{P_t - P_{min}}{P_{min}} \right]$ <p>where</p> <p>P_s = Points scored for price of tender under consideration; P_t =</p> <p>Price of tender under consideration; and</p> <p>P_{min} = Price of lowest acceptable tender.</p> <p>A trust, consortium or joint venture will qualify for points for their BBB-EE status level as a legal entity, provided that the entity submits their BBB-EE status level certificate. A trust, consortium or joint venture will qualify for points for their BBB-EE status level as an unincorporated entity, provided that the entity submits their consolidated BBB-EE scorecard as if they were a group</p> <p>Bidders to fail to satisfy any of the above eligibility criteria in clause F.2.1 shall be determined to be non-responsive and their bids shall not be considered further. Bidders shall not be provided a second opportunity by the employer to submit any information in relation to any of the above eligibility criteria where such information is not provided by the bidder, bound within the bid submission, on the date of the bidding.</p>
F .2.7	For particulars regarding A PRE-TENDER SITE INSPECTION MEETING, see Notice and Invitation to Tender T1.1
F .2.12	<p>If a tenderer wishes to submit an own alternative offer, the only criteria permitted for such alternative tender offer is that it demonstrably satisfies the Employer's standards and requirements. A tender may submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted. Provided that the tenderer's main tender offer is according to specification and would under normal circumstances be recommended for acceptance, his alternative tender offer may also be considered for the purpose of the award of the contract.</p> <p>Calculations, drawings and all other pertinent technical information and characteristics as well as modified or proposed Pricing Data must be submitted with the alternative tender offer to enable the Employer to evaluate the efficacy of the alternative and its principal elements, to take view on the degree to which the alternative complies with the Employer's standards and requirements and to evaluate the acceptability of the pricing proposals. Calculations must be set out in a clear and logical sequence and must clearly reflect all design assumptions. Pricing Data must reflect all assumptions in the development of the pricing proposal</p> <p>Acceptance of an alternative tender offer will mean acceptance in principle of the offer. It will be a contractual obligation of the tenderer, in the event that the alternative is accepted, to accept full responsibility and liability that the alternative offer complies in all respect with the Employer's standards and requirements.</p> <p>The modification Pricing Data must include an amount equal to 5% of the amount tenderer for the alternative offer to cover the Employer's cost of confirming the acceptability of the detailed design before it is constructed</p> <p>Alternative tender offer permitted: NO</p>
F .2.12	The EMPLOYERS ADDRESS FOR DELIVERY of tender offers and identification details to be shown on each tender offer package are as per Notice and Invitation to Tender T1.1
F.2.13.6 F .3.5	<p><u>A two-envelope procedure is required:</u></p> <p><u>Envelope 1: Bank Rating, Financial Statements and Functionality Criteria as clause F.2.1 above</u></p> <p><u>Envelope 2: Northern Cape Form & Offer, Bid Documents, etc.</u></p>

F.2.15	The CLOSING TIME for submission of tender offers is as per Notice and Invitation to Tender T1.1
F.2.16	The tender offer VALIDITY PERIOD is as per Notice and Invitation to Tender T1.1
F.2.18	The tenderer will be required to submit a fully Priced Bill / Lump Sum tender document, with tender closing.
F.2.19	Access shall be provided for inspection, tests and analysis as may be required by the Employer.
F.2.22	Not a requirement.
F.3.4.1 F.3.4.2.	The location for opening of the tender offers, immediately after closing time thereof shall be at: Error! Reference source not found.
F.3.11.1	<p>The procedure for the evaluation of responsive tender is</p> <ul style="list-style-type: none"> • Method 1: Financial offer • Method 2: Financial offer and preferences • Method 3: Financial offer and quality • Method 4: Financial offer, quality and preferences <p style="text-align: right;">METHOD 4 - WILL apply for this tender.</p>
F.3.11	<p>Scoring the Financial Offer:</p> <p>$P_s = NEP + W_c$ (calculated separately for each tender offer)</p> <p>The score for quality and financial offer is to be combined, before the addition of the score for preference, as follows:</p> $W_c = W_3 \left(1 + \frac{P - P_m}{P_m} \right)$ <p>where</p> <p>W_3 = The number of tender evaluation points for quality and financial offer and equals:</p> <ol style="list-style-type: none"> 1) 90 where the financial value inclusive of VAT of all responsive tenders received have a value in excess of R 50 000 000; or 2) 80 where the financial value inclusive of VAT of one or more responsive tender offers equals or is less than R 50 000 000. <p>P = The price of the financial offer of the submission under consideration.</p> <p>P_m = The price of the financial offer of the submission of the lowest acceptable tender.</p> <p>W_c = Points allocated for price of tender under consideration.</p> <p>Scoring for Preferences:</p> <p>In terms of the Preferential Procurement Regulations 2011 preferences points for B-BBEE level of contribution are calculated on their B-BBEE Status Level of Contribution in the industry.</p> <p>Tender evaluation points will be awarded to tenderers who completes the preferencing schedule and who is found to be eligible for the preference claimed.</p> <p>Points for Direct Preference will be calculated according to the B-BBEE Status Level of Contribution of the tender under consideration as a per the points stated in the Notice and Invitation to Tender T1.1 and claimed in this form.</p> <p>Calculate Total tender Evaluation Points:</p> <p>The point calculated for price will be added to the point scored for preference for each individual tender offer.</p>

F.3.13.1	<p>Tender offers will only be accepted if:</p> <ol style="list-style-type: none"> The tenderer or any of its directors is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act, 2004 (Act 12 of 2004) as a person prohibited from doing business with the public sector; and The tenderer has not: <ol style="list-style-type: none"> abused the Employer's Supply Chain Management System; or Failed to perform on any previous contract and has been given a written notice to this effect.
F.3.18	Provide to the successful tender one copy of the signed contract document.
F.4	<p>ADDITIONAL CONDITIONS OF TENDER</p> <p>The additional conditions of the tender are:</p>
F.4.1	<p>Invalid Tender</p> <p>Tenders shall be considered invalid and shall be endorsed and recorded as such in the tender opening record, by the responsible official who opened the tender, in the following circumstances:</p> <ol style="list-style-type: none"> If the tender offer is not submitted on the Form of Offer and Acceptance bound into this tender document (formC1.1, Part C1: Agreements and Contract Data): If the Form of Offer and Acceptance has not been completed or has not been signed by the authorised representative of the tender If the Form of Offer and Acceptance is signed, but the name of the tenderer is not stated or is indecipherable If the tender offer is not completed in non-erasable ink.
F.4.2	<p>Negotiations with preferred tenderers</p> <p>The Employer may negotiate the final terms of a contract with tenderers identified through a competitive tendering process as preferred tenderers provided that such negotiations:</p> <ol style="list-style-type: none"> Does not allow any preferred tenderer a second or unfair opportunity; Is not to the detriment of any other tender; and Does not lead to a higher price than the tender as submitted. <p>Minutes of any such negotiations shall be kept for record purposes</p>
F.4.3	<p>Letter of good standing (COIDA)</p> <p>The Tenderer shall submit to the Employer a letter of good standing (COIDA)</p>
F.4.4	<p>Claims arising after submissions of tender</p> <p>No claim for ant extra arising out of any doubt or obscurity as to the true intent and meaning of anything contained in the Conditions of Contract, Scope of Work and Pricing Data, will be admitted by the Employer after submission of any tender and the tenderer shall be deemed to have:</p> <ol style="list-style-type: none"> Read and fully understood the whole text of the Contract Data, Scope of Work and Pricing Data and thoroughly acquainted himself with the nature of the works proposed and generally of all matters which may influence the Contract. Visited the site of any proposed works. Requested the Employer or his duly authorised agent to make clear the actual requirements of anything contained in the Scope of Works and Pricing Data, the extract meaning or interpretation of which is not clearly intelligible to the tenderer. Received any Addenda to the tender documents which have been issued in accordance with the Employer's Supply Chain Management Policy.
F.4.5	<p>Imbalance in tendered rates</p> <p>In the event of tendered rates or lump sums being declared by the Employer to be unacceptable to it because they are either excessively low or high or not in proper balanced with other rates or lump sums, the tenderer may be required to produce evidence and advance arguments in support of the tendered rates or lump sums objected to. If, after submission of such evidence and any further evidence requested, the Employer is still not satisfied with the tendered rates or lump sums objected to, it may request the tenderer to amend these rates and lump sums along the lines indicated by it.</p> <p>The tenderer will then have the option to alter and/or amend the rates and lump sums objected to and such other amounts as are agreed on by the Employer, but this shall be done without altering the tender offer as</p>

	tendered. Should the Tenderer fail to amend his Tender in a manner acceptable to the Employer, the Employer, the Employer may reject the Tender.
F.4.6	<p>The Employer shall not formally issue tender documents in electronic format as contemplated in C.2.12.2 and C.2.13.3 and shall only issue tender documents in hardcopy. An electronic version of the issued tender documents may be made available to the tenderer, upon written request in terms of this clause, subject to the following:</p> <ul style="list-style-type: none"> (a) Electronic copies of the contract document, or parts thereof, will only be provided to tenderers who have been issued with the tender documents as contemplated in C.1.2 in hardcopy. (b) The electronic version shall not be regarded as a substitute for the issued tender documents. (c) The Employer shall not accept Tender submitted in electronic format. Tenderers may not complete and submit a printed copy of the electronic version of the tender document or part thereof. Only those Tender that have been completed on an issued hard copy tender document shall be considered. (d) The Employer accepts no responsibility or liability arising from the reliance on or use of the electronic version provided in terms of this clause. The Employer further does not guarantee that the electronic version corresponds with the issued tender document in all respects. Tenderers are alerted to the fact that electronic version of the tender documents may not reflect any notices or addenda that amend the tender document. (e) Any non-compliance with these provisions, including effecting any unauthorized alterations to the tender as contemplated in C2.11, shall render the tender invalid. The Employer reserves the right to take any action against such tenderer allowed in law including, in circumstances where the tender had already been awarded, the right to cancel the contract. (f) In requesting the electronic version of the tender document or parts thereof, the tenderer is deemed to have read, understood and accepted all of the above conditions.
F.4.7	<p>Local Content and Production for Designated Sectors</p> <p>Only locally produced or locally manufactured steel products and components for the construction with stipulated minimum threshold of 100% for local production and content will be considered. If the quantities of steel products and components for construction required cannot be wholly sourced in South Africa (RSA) based manufacturers and/or at the designated local content threshold of 100%, bidders and procuring entities should obtain written authorization from DTI should there be a need to import and copy of this authorization letter must be submitted together with the bid document at the closing date and time.</p> <p>The exchange rate to be used for the calculation of the local production and content must be the exchange rate published by the South Africa Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid.</p> <p>A bid will be disqualified if:</p> <ul style="list-style-type: none"> • The bidder fails to achieve the stipulated minimum threshold for the local production and content unless written exemption has been granted to the bidder by the DTI to bid at a lower content level. • Failure to indicate the minimum percentage (100% & 90%) or not meeting minimum percentage for local content will automatically invalidate the bid from further consideration. • The Declaration Certificate for Local Content (SBD 6.2), the Annex C (Local Content Declaration: Summary Schedule) are not completed, duly signed, and submitted by the closing date and time of the bid <p>Bidders may contact the Metals Fabrication, Capital and Rail Transport Equipment Unit within the DTI at telephone 012 394 1356 or Primary Minerals Processing and Construction Unit at telephone 012 394 5157</p>
F.4.8	<p>Subcontracting as a condition of Tender</p> <p>The successful bidder shall be required to subcontract a minimum 30% of the value of the Contract including labour and materials to EME'S and/or QSE'S enterprises determined in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act. These sub-contractors can be selected from the CIDB database who are registered on the CSD for the purposes of compliance. Bidders shall make allowance in their preliminaries for any additional costs required in this regard, for example, for the preparation of work packages, management of the subcontractors including site supervision, drafting and conclusion of the subcontract agreements, subcontractor OHS plan approvals, etc., that may arise due to this commitment.</p>
F.4.9	<p>Compliance with Occupation Health and Safety Act 1993</p> <p>Tenderers are to note the requirements of the Occupational Health and Safety Act (No. 85 of 1993) and the Construction Regulations 2014 issued in terms of Section 43 of the Act. The tenderer shall be deemed to have read and fully understood the requirements of the above Act and Regulations and to have allowed for all the costs in compliance therewith. Tenderers are to note that the service provider is required to ensure that all sub-contractor/sub-consultants or other engaged in the performance of this contract also comply with the above requirements.</p>

PART T2: RETURNABLE DOCUMENTS

T2.1- List of Returnable Documents

LIST OF RETURNABLE DOCUMENTS

1. RETURNABLE SCHEDULES REQUIRED FOR TENDER EVALUATION PURPOSES

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

Tender document name		Number of pages issued	Returnable document
T 2. 2-1	Resolution of Board of Directors (PA-15.1)	1 Page	<input checked="" type="checkbox"/> Yes
T2. 2-2	Resolution of Board of Directors to enter into consortia or JV's (PA-15.2)	2 Pages	<input checked="" type="checkbox"/> Yes
T2 2-3	Special Resolution of Consortia or JV's (PA-15.3)	3 Pages	<input checked="" type="checkbox"/> Yes
T2. 2-4	Schedule of proposed sub-contractors (DPW-15: EC)	1 Page	<input checked="" type="checkbox"/> Yes
T2. 2-7	Site Inspection Meeting Certificate (DPW-16: EC)	1 Page	<input checked="" type="checkbox"/> Yes
T2. 2-8	Declaration of Interest (PA-11)	3 Pages	<input checked="" type="checkbox"/> Yes
T2. 2-15	Compulsory Enterprise Questionnaire	2 Pages	<input checked="" type="checkbox"/> Yes
F.2.1	Bank Rating Letter (not older than 3 months at the close of tender)	Pages	<input checked="" type="checkbox"/> Yes
F.2.1	Past three years Audited financial Statements	Pages	<input checked="" type="checkbox"/> Yes
	Valid Letter of Good Standing	Pages	<input checked="" type="checkbox"/> Yes
	Declaration Certificate for Local Content (SBD 6.2)	Pages	<input checked="" type="checkbox"/> Yes
	Joint Venture Agreement (State percentage split)	Pages	<input checked="" type="checkbox"/> Yes
	Priced Bills of Quantities	Pages	<input checked="" type="checkbox"/> Yes

2. RETURNABLE SCHEDULES THAT WILL BE INCORPORATED INTO THE CONTRACT

Tender document name		Number of pages issued	Returnable document
T2. 2-6	Preference Certificate (SBD6.1)	6 Pages	<input checked="" type="checkbox"/> Yes
T2. 2-11	Record of Addenda to tender documents (DPW-21: EC)	1 Pages	<input checked="" type="checkbox"/> Yes
T2. 2-12	Particulars of Electrical Contractor (refer to index)	1 Page	<input checked="" type="checkbox"/> Yes

3. OTHER DOCUMENTS THAT WILL BE INCORPORATED INTO THE CONTRACT

Tender document name		Number of pages issued	Returnable document
Form of construction guarantee (DPW 10.1 & DPW 10.3)		Pages	<input checked="" type="checkbox"/> Yes

Resolution of Board of Directors

RESOLUTION OF BOARD OF DIRECTORS

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

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

Held at _____ (place)

On _____ (date)

RESOLVED that:

1. The Enterprise submits a Bid / Tender to the DEPARTMENT OF ROADS & PUBLIC WORKS in respect of the following project:

(Project description as per Bid / Tender Document)

Bid / Tender Number: _____ (Bid / Tender Number as per Bid / Tender Document)

2. *Mr/Mrs/Ms: _____

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

and who will sign as follows : _____

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

	NAME	Capacity	Signature
1			
2			
3			
4			
5			
6			

Note:

1. * Delete which is not applicable
2. **NB.** This resolution must be signed by all the Directors / Members / Partners of the Bidding Enterprise
3. Should the number of Directors / Members/Partners exceed the space available above, additional names and signatures must be supplied on a separate page

ENTERPRISE STAMP

Resolution of Board of Directors to Enter into Consortia or Joint Ventures

RESOLUTION OF BOARD OF DIRECTORS TO ENTER INTO CONSORTIA OR JOINT VENTURES

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

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

Held at _____ (place)

On _____ (date)

RESOLVED that:

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

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

to the DEPARTMENT OF ROADS & PUBLIC WORKS in respect of the following project:

(Project description as per Bid /Tender Document)

Bid / Tender Number: _____ (Bid / Tender Number as per Bid /Tender Document)

4. *Mr/Mrs/Ms: _____

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

and who will sign as follows: _____

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

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

Physical address: _____

_____ (code)

Postal Address: _____

 _____ (code)

Telephone number: _____ (code)

Fax number: _____ (code)

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

Note:

1. * Delete which is not applicable
2. **NB.** This resolution must be signed by all the Directors / Members / Partners of the Bidding Enterprise
3. Should the number of Directors / Members/Partners exceed the space available above, additional names and signatures must be supplied on a separate page

ENTERPRISE STAMP

Joint ventures are eligible to submit tender provided that:

- every member of the joint venture is registered with the CIDB
- The combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for this project.
- A Joint Venture Agreement must be submitted with the tender in the case of a joint venture offer.

Special Resolution of Consortia or Joint Ventures

SPECIAL RESOLUTION OF CONSORTIA OR JOINT VENTURES

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

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

Held at _____ (place)

On _____ (date)

RESOLVED that:

RESOLVED that:

- A. The above-mentioned Enterprises submit a Bid in Consortium/Joint Venture to the DEPARTMENT OF ROADS & PUBLIC WORKS in respect of the following project:

(Project description as per Bid /Tender Document)

Bid / Tender Number: _____ *(Bid / Tender Number as per Bid /Tender Document)*

- B. Mr/Mrs/Ms: _____

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

and who will sign as follows: _____

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

- C. The Enterprises constituting the Consortium/Joint Venture, notwithstanding its composition, shall conduct all business under the name and style of: _____
- D. The Enterprises to the Consortium/Joint Venture accept joint and several liability for the due fulfilment of the obligations of the Consortium/Joint Venture deriving from, and in any way connected with, the Contract entered into with the Department in respect of the project described under item A above.
- E. Any of the Enterprises to the Consortium/Joint Venture intending to terminate the consortium/joint venture agreement, for whatever reason, shall give the Department 30 days written notice of such intention. Notwithstanding such decision to terminate, the Enterprises shall remain jointly and severally liable to the Department for the due fulfilment of the obligations of the Consortium/Joint Venture as mentioned under item D above.
- F. No Enterprise to the Consortium/Joint Venture shall, without the prior written consent of the other Enterprises to the Consortium/Joint Venture and of the Department, cede any of its rights or assign any of its obligations under the consortium/joint venture agreement in relation to the Contract with the Department referred to herein.
- G. The Enterprises choose as the *domicilium citandi et executandi* of the Consortium/Joint Venture for all purposes arising from the consortium/joint venture agreement and the Contract with the Department in respect of the project under item A above:

Physical address: _____

_____ (code)

E-mail address : _____

Business address: _____

_____ (code)

Postal Address: _____

_____ (code)

Telephone number: _____ (code)

Fax number: _____ (code)

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

Note:

1. * Delete which is not applicable
2. **NB.** This resolution must be signed by all the Duly Authorised Representatives of the Legal Entities to the Consortium/Joint Venture submitting this Bid
3. Should the number of Duly Authorised Representatives of the Legal Entities joining forces in this Bid exceed the space available above, additional names and signatures must be supplied on a separate page
4. Resolutions, duly completed and signed, from the separate Enterprises who participate in this Consortium/Joint Venture must be attached to the Special Resolution.

Joint ventures are eligible to submit tender provided that:

- every member of the joint venture is registered with the CIDB
- The combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for this project.
- A Joint Venture Agreement must be submitted with the tender in the case of a joint venture offer.

Schedule of Proposed Subcontractor

SCHEDULE OF PROPOSED SUBCONTRACTORS

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

We confirm that all subcontractors who are contracted to construct a house are registered as home builders with the National Home Builders Registration Council and/or with the CIDB (Construction Industry Development Board).

	Name and address of proposed Subcontractor	Nature and extent of work	Previous experience with Subcontractor
1			
2			
3			
4			
5			

Name of representative	Signature	Capacity	Date

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

Capacity of Tenderer

CAPACITY OF TENDERER

4. **WORK CAPACITY:** *(The Tenderer is requested to furnish the following particulars, attach additional pages if more space is required. Failure to furnish the particulars may result in the Tender being disregarded.)*

Skilled artisans employed		Unskilled employees employed	
Categories of artisans	Number	Categories of employees	Number

4.1. Provide full particulars of:

Machinery	Plant	Workshops

5. PARTICULARS OF COMMITMENTS WHICH THE TENDERER HAS PREVIOUSLY COMPLETED AND PRESENTLY ENGAGED WITH:

5.1. Current projects:

Project	Place (town)	Reference / Contact person	Contact Tel. No.	Contract amount	Contract period	Date of commence- ment	Scheduled date of completion
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							

5.2. Previous projects:

Project	Place (town)	Reference / Contact person	Contact Tel. No.	Contract amount	Contract period	Date of commencement	Scheduled date of completion	Actual date of completion
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

Name of Tenderer	Signature	Date

Preference Certificate

NCP 6.1

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

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

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

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

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

1.2 To be completed by the organ of state

(delete whichever is not applicable for this tender).

- a) The applicable preference point system for this tender is the 90/10 preference point system.
- b) Either the 90/10 or 80/20 preference point system will be applicable in this tender. The lowest/highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) Specific Goals.

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	90
SPECIFIC GOALS	10
Total points for Price and SPECIFIC GOALS	100

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

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

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

$$\begin{array}{ccc}
 \text{80/20} & \text{or} & \text{90/10} \\
 \\
 Ps = 80 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right) & \text{or} & Ps = 90 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)
 \end{array}$$

Where

- Ps = Points scored for price of tender under consideration
- Pt = Price of tender under consideration
- Pmin = Price of lowest acceptable tender

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

3.2.1. POINTS AWARDED FOR PRICE

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

$$\begin{array}{ccc}
 \text{80/20} & \text{or} & \text{90/10} \\
 \\
 Ps = 80 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right) & \text{or} & Ps = 90 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)
 \end{array}$$

Where

- Ps = Points scored for price of tender under consideration
- Pt = Price of tender under consideration
- Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

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

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

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

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

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Enterprise with ownership of 51% or more by person/s who are black person/s	90	10		

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number:

4.5. TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
- ☐ One-person business/sole propriety
- ☐ Close corporation
- ☐ Public Company
- ☐ Personal Liability Company
- ☐ (Pty) Limited
- ☐ Non-Profit Company
- ☐ State Owned Company

[TICK APPLICABLE BOX]

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary.

.....
SIGNATURE(S) OF TENDERER(S)

SURNAME AND NAME:

DATE:

ADDRESS:

.....

.....

.....

Site Inspection Meeting Certificate

SITE INSPECTION MEETING CERTIFICATE

Project title:	NURSING COLLEGE KIMBERLEY PHASE 2A
-----------------------	------------------------------------

This is to certify that I, _____ representing
_____ in the company of
_____ visited the site on:

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

Name of Tenderer	Signature	Date

Name of DEPT Representative or Project Leader	Signature	Date

Name of Project Manager	Signature	Date

Declaration of Interest

NCP4

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

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

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

2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? **YES/NO**

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

Full Name	Identity Number	Name of State institution

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:
.....
.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**

2.3.1 If so, furnish particulars:
.....
.....

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

3 DECLARATION

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

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium² will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

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

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

.....
Signature

.....
Date

.....
Position

.....
Name of bidder

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

Record of Addenda to Tender Documents

RECORD OF ADDENDA TO TENDER DOCUMENTS

14. I / We confirm that the following communications received from the DEPARTMENT OF ROADS & PUBLIC WORKS before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer: *(Attach additional pages if more space is required)*

	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		

Name of Tenderer	Signature	Date

15. I / We confirm that no communications were received from the **Error! Reference source not found.** before the submission of this tender offer, amending the tender documents.

Name of Tenderer	Signature	Date

Particulars of Electrical Contractor

PARTICULARS OF ELECTRICAL CONTRACTOR

We confirm that the **Electrical Contractor** contracted to construct are registered with the Electrical Contracting Board of SA, the Department of Employment and Labour and with the CDB (Construction Industry Development Board) in their class of construction.

Name of Electrical Contractor:

Address:

Electrical Contractor registration number at the Electrical Contracting Board of S.A.:

Name of Tenderer	Signature	Date

Special Conditions Of Contract For Subcontracting

SPECIAL CONDITIONS OF TENDER

PROJECT: NURSING COLLEGE KIMBERLEY PHASE 2A

TENDER NO: DRPW 001/2023

The conditions of tender are the Standard Conditions of Tender as contained in Annex C of Board Notice 423 of 2019 in Government Gazette No. 42622 of 8 August 2019, Construction Industry Development Board (CIDB) Standard for Uniformity in Construction Procurement. (See www.cidb.org.za) which are reproduced without amendment or alteration for the convenience of tenderers as an Annex to this Tender Data. The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the standard conditions of tender. Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies. The following variations, amendments and additions to the Standard Conditions of Tender as set out in the Tender Data below shall apply to this tender.

Add the following to clauses in Standard Conditions of Tender

The employer's agent is Hospital Design Group Attention is drawn to the fact that verbal information, given by the Employer's agent during site visits/clarification meetings or at any other time prior to the award of the Contract, will not be regarded as binding on the Employer. Only information issued formally by the Employer in writing to Tenderers will be regarded as amending the Tender Documents

A competitive negotiation procedure will not be followed.

A two-stage system will not be followed.

SUBCONTRACTING

SUBCONTRACTING

It is a special condition of this tender and the subsequent contract that would be awarded to the successful tenderer that:

The tenderer / contractor should apply specific goals / objective criteria to advance designated groups in terms Contracting Participation Goals and Specification Goals (as per Regulation 2022) of empowerment which reads as follows:

The successful tenderer must subcontract a minimum of 30% of the value of the contract (excluding VAT, provisional sums and budgetary allowances as well as contingencies and escalation) to and subcontracting conditions for Specific Goals (NCP6.1) must be Northern Cape Companies exclusive, sub-contracting 30% to QSE or EME which is 51% owned by black people living in townships, Northern Cape Province.

For this reason, the following documentation must be submitted at the time of entering into the agreement between main contractor and subcontractors:

- certified B-BBEE certificates / sworn affidavits of the sub-contracting party
- original and valid tax clearance certificate of the sub-contracting party

- signed copy of the legal agreement between the main contractor and the subcontracting party,

Only those subcontractors who are registered with the CIDB, or are capable of being so prior to the evaluation of their submissions, in a contractor grading designation determined in accordance with the sum tendered for the specific Class and Range of construction works are eligible to submit tenders.

CIDB registration is not applicable to Labour Only subcontractors.

The targeted CIDB graded contractor levels of 2 and above will be applicable to this project.

It is a further requirement that these subcontractors are registered and active on the Central Supplier Database (CSD)

The following CIDB limits are proposed and must be 30% of the value/works of the project

CATEGORY OF GRADE	Amount maximum limit of
CIDB GRADE 5 GB	R10 000 000 VAT inclusive
CIDB GRADE 6 GB	R20 000 000 VAT inclusive
CIDB GRADE 7 GB	R60 000 000 VAT inclusive
CIDB GRADE 8 GB	R70 000 000 VAT inclusive

Note to tenderers:

A list of suppliers registered on a database approved by the National Treasury as per Regulation 9.3 will be given to successful tenderer. The tenderer is not limited to the list; however, it remains the responsibility of the Tenderer to verify the QSE or EME status of the Subcontractor with:

≥51% ownership by Black people living in rural or undeveloped areas which is Northern Cape Province. For this particular project, local will be confined firstly to the in the Northern Cape Province.

Contract parameters

Contract subcontracting goal applicable to the contract %
Contract sum at time of award (exclusive of value added tax)	R
Less: provisional sums and budgetary allowances	R
Less: contingencies and escalation	R
Net amount	R (1)

Contract subcontracting goal implementation plan

Summary of targeted works or trades identified for subcontracting participation

Proposed Work / Trades to be subcontracted	Estimated value of contracts (excluding provisional sums, budgetary allowances, contingencies, escalation and value added tax)	Percentage participation claimed towards contract participation goal
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
Total contribution towards Subcontracting participation goal	R	% (2)

Targeted subcontracting participation goal

100 x 2 / 1 _____ %

Local Content Declaration

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS (SBD 6.2)

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

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

1. GENERAL CONDITIONS

- 1.1. Preferential Procurement Regulations, 2017 (Regulation 8) makes provision for the promotion of local production and content.
- 1.2. Regulation 8.(2) prescribes that in the case of designated sectors, where in the award of bids local production and content is of critical importance, such bids must be advertised with the specific bidding condition that only locally produced goods, services or works or locally manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for bids referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286:211 as follows:

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

Where:

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

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid as indicated in paragraph 3.1 below.

THE SABS APPROVED TECHNICAL SPECIFICATION NUMBER SATS 1286:2011 IS ACCESSIBLE ON [HTTP://WWW.DTI.GOV.ZA/INDUSTRIAL DEVELOPMENT/IP.JSP](http://www.dti.gov.za/industrial_development/ip.jsp) AT NO COST.

- 1.6 A bid may be disqualified if this Declaration Certificate and Form L (Annex C, D and E) are not submitted as part of the bid documentation.

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

Description of services, works or goods	Stipulated minimum threshold
Steel value-added construction material products	
Fabricated Structural Steel	100%
Joining/Connecting Components	100%
Frames	100%
Roof and Cladding	100%
Fasteners	100%
Wire Products	100%
Ducting and Structural Pipework	100%
Gutters, downpipes & launders	100%
Primary steel construction material products	
Plates (>4.5mm thick and supplied in flat pieces)	100%
Sheets (<4.5mm thick and supplied in coils)	100%
Galvanised and Colour Coated coils	100%
WireRod and Drawn Wire	100%
Sections (Channels, Angles, I-Beams and H-Beams)	100%
Reinforcing bars	100%
Electrical cable material products	
Low Voltage	90%
Low Cost Reticulation	90%
Medium & High Voltage	90%
ACR	90%

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

YES		NO	<i>Tick applicable box</i>
------------	--	-----------	----------------------------

- 3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency at 12:00 on the date of advertisement of the bid 08 December 2017.

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

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

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

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

4. Were the Local Content Declaration Templates (Annex C (Form A3.6), D and E) audited and certified as correct?

YES		NO		Tick applicable box
-----	--	----	--	---------------------

4.1 If yes, provide the following particulars:

- (a) Full name of auditor:

- (b) Practice number:
- (c) Telephone and cell
 number:
- (d) Email address:

(Documentary proof regarding the declaration will, when required, be submitted to the satisfaction of the Accounting Officer / Accounting Authority)

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

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

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

IN RESPECT OF BID NO.

ISSUED BY: (Procurement Authority / Name Institution):

.....

N.B.:

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

I, the undersigned (full names),

do hereby declare, in my capacity as

of (name of bidder entity)

the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that the goods/services/works to be delivered in terms of the above- specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and

- (c) The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declarations D and E which has been consolidated in Declaration C:

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 2 above)	...%
Local content %, as calculated in terms of SATS 1286:2011	...%

IF THE BID IS FOR MORE THAN ONE PRODUCT, THE LOCAL CONTENT PERCENTAGES FOR EACH PRODUCT CONTAINED IN DECLARATION C SHALL BE USED INSTEAD OF THE TABLE ABOVE.

The local content percentage for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declarations D and E.

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

SIGNATURE:

DATE:

WITNESS No. 1:

DATE:

WITNESS No. 2:

DATE:

SATS 1286.2011

Annex C

Local Content Declaration - Summary Schedule

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

Note: VAT to be excluded from all calculations

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

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

Signature of tenderer from Annex B _____

Date: _____

(C20) Total tender value _____

(C21) Total Exempt imported content _____

(C22) Total Tender value net of exempt imported content _____

(C23) Total Imported content _____

(C24) Total local content _____

(C25) Average local content % of tender _____

Tender No.	
Tender description:	
Designated Products:	
Tender Authority:	
Tendering Entity name:	
Tender Exchange Rate:	Pula

EU	R 9.00
----	--------

GBP	R 12.00
-----	---------

Calculation of imported content

Summary	
Tender Qty	Exempted imported value
Imported value	

**This total must correspond with
Annex C - C 21**

Calculation of imported content

Summary	
Tender Qty	Total imported value
Value by tenderer	

68

69

SATS 1286.2011

Annex E

Local Content Declaration - Supporting Schedule to Annex C

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

Note: VAT to be excluded from all calculations

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

(E10)	Manpower costs	(Tenderer's manpower cost)	
(E11)	Factory overheads	(Rental, depreciation & amortisation, utility costs, consumables etc.)	
(E12)	Administration overheads and mark-up	(Marketing, insurance, financing, interest etc.)	
(E13) Total local content			
This total must correspond with Annex C - C24			

Signature of tenderer from Annex B

Date: _____

Compulsory Enterprise Questionnaire

6. Compulsory Enterprise Questionnaire

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

Attach to this form the most recent financial statements of the tendering entity.

Section 1: Name of enterprise:

Section 2: VAT registration number, if any:

Section 3: cidb registration number, if any:

Section 4: Particulars of sole proprietors and partners in partnerships

Name*	Identity number*	Personal income tax number*

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

Section 5: Particulars of companies and close corporations

Company registration number

Close corporation number

Tax reference number

CSD Number.....

SARS Pin.....

Section 6: Record in the service of the state

Indicate by marking the relevant boxes with a cross, if any sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months in the service of any of the following:

- | | |
|--|---|
| <input type="checkbox"/> a member of any municipal council | <input type="checkbox"/> an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999) |
| <input type="checkbox"/> a member of any provincial legislature | <input type="checkbox"/> a member of an accounting authority of any national or provincial public entity |
| <input type="checkbox"/> a member of the National Assembly or the National Council of Province | <input type="checkbox"/> an employee of Parliament or a provincial legislature |
| <input type="checkbox"/> a member of the board of directors of any municipal entity | <input type="checkbox"/> an employee or a member of board of directors of cidb |
| <input type="checkbox"/> an official of any municipality or municipal entity | |

If any of the above boxes are marked, disclose the following:

Name of sole proprietor, partner, director, manager, principal shareholder or stakeholder	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

*insert separate page if necessary

Section 7: Record of spouses, children and parents in the service of the state

Indicate by marking the relevant boxes with a cross, if any spouse, child or parent of a sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months been in the service of any of the following:

- | | |
|--|---|
| <input type="checkbox"/> a member of any municipal council | <input type="checkbox"/> an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999) |
| <input type="checkbox"/> a member of any provincial legislature | <input type="checkbox"/> a member of an accounting authority of any national or provincial public entity |
| <input type="checkbox"/> a member of the National Assembly or the National Council of Province | <input type="checkbox"/> an employee of Parliament or a provincial legislature |
| <input type="checkbox"/> a member of the board of directors of any municipal entity | <input type="checkbox"/> an employee or a member of board of directors of CIDB |
| <input type="checkbox"/> an official of any municipality or municipal entity | |

Name of spouse, child or parent	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

*insert separate page if necessary

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

- authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- confirms that neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;
- confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud or corruption;
- confirms that I / we are not associated, linked or involved with any other tendering entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest; and
- confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

Signed

Date

Name

Position

Enterprise name

THE CONTRACT

PART C1 : CONTRACT DATA

Contract Data: JBCC 2000 Principal Building Agreement

CONTRACT DATA: JBCC 2000 PRINCIPAL BUILDING AGREEMENT (Edition 4.1 of March 2005)

CONTRACT DATA

NURSING COLLEGE KIMBERLEY PHASE 2A

	<p>The Conditions of Contract are clauses 1 to 41 of the JBCC Series 2000 Principal Building Agreement (Edition 4.1 of March 2005) prepared by the Joint Building Contracts Committee.</p> <p>Copies of these conditions of contract may be obtained through most regional offices of the Association of South African Quantity Surveyors, Master Builders Association, South African Association of Consulting Engineers, South African Institute of Architects, Association of Construction Project Managers, Building Industries Federation South Africa, South African Property Owners Association or Specialist Engineering Contractors Committee.</p>
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	<p>CONTRACT VARIABLES</p> <p>THE SCHEDULE</p> <p>The schedule contains all variables referred to in this document and is divided into part 1: contract data completed by the employer and part 2: contract data completed by the contractor. Part 1 must be completed in full and included in the tender documents. Both the part 1 and part 2 form part of this agreement</p> <p>Spaces requiring information must be filled in, shown as 'not applicable' or deleted but not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross referenced to the applicable clause of the schedule. Key cross reference clauses are italicized in [] brackets</p>
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42.0	Part 1: Contract Data completed by the Employer:
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42.1	CONTRACTING AND OTHER PARTIES
42.1.1	<p><u>Employer:</u></p> <p>Government of the Republic of South Africa in its Error! Reference source not found. Provincial Government, represented by the Accounting Officer of Error! Reference source not found.</p> <p><u>Postal address:</u></p> <p>Tebogo Leon Tume Complex 9-11 Stockroos Street Square Hill Park KIMBERLEY,8301</p> <p><u>Physical address:</u></p> <p>Tebogo Leon Tume Complex 9-11 Stockroos Street Square Hill Park KIMBERLEY,8301</p>

42.1.2 [1.1, 5.1]	Principal Agent: HOSPITAL DESIGN GROUP Agent's service: PRINCIPAL AGENT & ARCHITECTURE Postal address: 57 Warden Street, Harrismith 9880 Tel: 058 622 3942 Fax: N/A email: braam@hdg.co.za
[1.1]	<u>Representative of the Employer:</u> Project Leader : Jewis September Postal address: Tebogo Leon Tume Complex 9-11 Stockroos Street Square Hill Park KIMBERLEY,8301 Tel: [053] 893 2100 Cell: +27 79 038 3057 Fax: [053] 839 2290 /1
42.1.3 [1.1, 5.2]	Agent (1): Agent's service: Postal address: Tel: Fax: email:
42.1.3 [1.1, 5.2]	Agent (2): Agent's service: Postal address: Tel: email:
42.1.3 [1.1, 5.2]	Agent (3): Agent's service: Postal address: Tel: Fax: email:

42.2	CONTRACT DETAILS
42.2.1 [1.1]	Works description: Refer to document C3 – Scope of Work.
42.2.2 [1.1]	Site description: Refer to document C4 – Site Information.
42.2.4 [41.0]	Specific options that are applicable to a State organ only Where so :
[1.1 #] [31.11.2 #] [31.12.2#] [11.2.#] [31.4.2 #] [40.2.2.#] [26.1.2 #]	1) Interest rate legislation: The interest rate applicable will be as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999) 2) Lateral support insurance to be effected by the contractor: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 3) Payment will be made for materials and goods Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 4) Dispute resolution by Adjudication Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 5) Extended defects liability period applicable to the following elements: N/A
42.2.6 [15.3]	Period for the commencement of the works after the contractor takes possession of the site : Ten (10) working days .
42.2.7 [24.3.1] [30.1]	For the works as a whole: Completion will be as follows: The date for practical completion shall be 24 Months from the commencement date and the penalty per calendar day shall be R 57 000.00 for late completion.
42.2.8 [24.3.1] [28.1]	For the works in sections : The date for practical completion from the commencement date and the penalty per calendar day : NOT APPLICABLE Section 1: Section 2: insert description as may be applicable insert penalty amount Section 3: insert description as may be applicable insert penalty amount Section 4: insert description as may be applicable insert penalty amount

42.2.9 [1.2]	The law applicable to this agreement shall be that of the: Republic of South Africa
42.3	INSURANCES
42.3.1 [10.1 #, 10.2 # 12.1 #]	<p>Contract works insurance to be effected by the contractor</p> <p><input checked="" type="checkbox"/> To the minimum value of the contract sum plus 10% With a deductible not exceeding 5% of each and every claim Or</p> <p><input type="checkbox"/> For the minimum sum of R (.....) With a deductible not exceeding 5% of each and every claim</p>
42.3.2 [10.1 #, 10.2 #, 12.1 #]	<p>Supplementary insurance is required: Yes</p> <p>To the minimum value of the contract sum plus 10 %</p>
42.3.3 [11.1 #, 12.1 #]	<p>Public liability insurance to be effected by the contractor</p> <p><input checked="" type="checkbox"/> For the sum of R 5 million With a deductible not exceeding 5% of each and every claim Or</p> <p><input type="checkbox"/> For the sum of R insert amount (insert amount in words) With a deductible not exceeding 5% of each and every claim</p>
42.3.4 [11.2 #, 12.1 #]	<p>Support insurance to be effected by the contractor</p> <p>For the sum of R insert amount (insert amount in words) With a deductible of R insert amount (insert amount in words)</p>

42.4	DOCUMENTS
42.4.1	Wavier of contractors lien or right of continuing possession is required.
42.4.2 [3.7]	Three (3) copies of the construction documents will be supplied to the contractor free of charge
42.4.3	<p>Bills of quantities / Lump sum document schedule of rates drawn up in accordance with:</p> <p><input checked="" type="checkbox"/> Standard System of Measuring Building Work (sixth edition as amended) Or</p> <p><input type="checkbox"/> Standard System of Measuring Building Work for Small or Simple Buildings 1999 Or</p> <p><input type="checkbox"/> Other) <i>Specific Project Specification forming part of this document. It will take preference over any contradictory items in the standard SABS/SANS 1200.</i></p>

42.4.5 [3.4]	JBCC Engineering General Conditions are to be included in the contract documents: No
42.4.6 [31.5.3] [32.13]	<p>The contract value is to be adjusted using CPAP indices: [Error! Reference source not found.]</p> <p>Where CPAP is applicable, the contract sum will be adjusted in accordance with the JBCC Contract Price Adjustment Provisions (CPAP) as set out in the CPAP Indices Application Manual as prepared by the JBCC Series 2000, code 2118, dated May 2005 and any amendments thereto:</p> <ol style="list-style-type: none"> 1) Glass etc. measured in specialist section Metalwork, will be adjusted in terms of the index for that work group unless specifically stated otherwise in the bills of quantities 2) All electrical installations in buildings and power distribution systems shall be adjusted in terms of the index for Work Group 160 Electrical Installation. In case of uninterruptible power supplies, elevators, escalators and hoists, generating sets, motor-alternator sets and intercommunication systems shall be in accordance with Work Group 170 3) With reference to Work Group 190 a proportion of the value related preliminaries pro rata to the amount of work excluded from adjustment, shall be excluded from Contract Price Adjustment Provisions, if Option A has been selected for the adjustment of preliminaries 4) Further to clause 3.4.4 of the CPAP Indices Application Manual, the listing of additional items for exclusion by tenderers, will not be permitted 5) Where V results in a negative amount after application of the formula in clause 8.3 of the CPAP Indices Application Manual the factor of 0,55 shall be substituted by 1,45 <p>Alternative Indices: Not Applicable</p>
42.4.7 [3.10]	<p>Details of changes made to the provisions of JBCC standard documentation</p> <p>Clause</p> <p>1.1 COMMENCEMENT DATE – means the date that the agreement, made in terms of the Form of Offer and Acceptance, comes into effect</p> <p>CONSTRUCTION GUARANTEE – means a guarantee at call obtained by the contractor from an institution approved by the employer in terms of the employer's construction guarantee form as selected in the schedule</p> <p>CONSTRUCTION PERIOD – means the period commencing on the commencement date and ending on the date of practical completion</p> <p>CORRUPT PRACTICE – means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution</p> <p>FRAUDULENT PRACTICE – means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer, and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition</p> <p>INTEREST – the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999)</p> <p>PRINCIPAL AGENT – means the person or entity appointed by the employer and named in the schedule. In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by a representative of the employer as named in the schedule</p>

	<p>SECURITY – means the form of security provided by the employer or contractor, as stated in the schedule, from which the contractor or employer may recover expense or loss</p> <p>1.6 Any notice given may be delivered by hand, sent by prepaid registered post or telefax. Notice shall be presumed to have been duly given when:</p> <p>1.6.4 No clause</p> <p>3.2.1 A construction guarantee in terms of 14.0, where so elected in his tender</p> <p>3.7 Add at the end thereof:</p> <p>The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times.</p> <p>3.10 Replace the second reference to “principal agent” with the word “employer”</p> <p>4.3 No clause</p> <p>5.1.2 under clause 41- Include reference to 32.6.3; 34.3; 34.4 and 38.5.8 in terms of which the employer has retained its authority and has not given a mandate to the principal agent and in terms of which the employer shall sign all documents</p> <p>10.5 Add the following as 10.5</p> <p>Damage to the works</p> <p>(1) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary</p> <p>(2) The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works</p> <p>(3) The employer shall carry the risk of damage to or destruction of the works and materials paid for by the employer that is the result of the excepted risks as set out in 10.6</p> <p>(4) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof</p> <p>10.6 Add the following as 10.6</p> <p>Injury to Persons or loss of or damage to Properties</p> <p>(a) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the works unless due to any act or negligence of any person for whose actions the employer is legally liable</p> <p>(b) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person, arising out of or in the course of or by reason of the execution of the works</p>
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	<p>unless due to any act or negligence of any person for whose actions the employer is legally liable</p> <p>(c) The contractor shall upon receiving a contract instruction from the principal agent cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the employer shall be entitled to cause it to be made good and to recover the cost thereof from the contractor or to deduct the same from amounts due to the contractor</p> <p>(d) The contractor shall be responsible for the protection and safety of such portions of the premises placed under his control by the employer for the purpose of executing the works until the issue of the certificate of practical completion</p> <p>(5) Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the contractor, shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the works has been completed</p> <p>(6) The contractor shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the works</p> <p>10.7 Add the following as 10.7</p> <p>HIGH RISK INSURANCE</p> <p>In the event of the project being executed in a geological area classified as a “High Risk Area”, that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:</p> <p>10.7.1 Damage to the works</p> <p>The contractor shall, from the commencement date of the works until the date of the certificate of practical completion, bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary</p> <p>When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs</p> <p>10.7.2 Injury to persons or loss of or damage to property</p> <p>The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above</p> <p>The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract</p> <p>10.7.3 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the contractor's</p>
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	<p>obligations in terms of the contract, the contractor shall, within twenty one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so</p> <p>10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole</p> <p>14.0 Replace the entire clause 14.0 with the following:</p> <p>14.0 SECURITY</p> <p>14.1 In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT)</p> <p>14.1.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(A)</p> <p>14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor</p> <p>14.2 In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the schedule. Such security shall be provided to the employer within twenty-one (21) calendar days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within twenty-one (21) calendar days from commencement date, the security in terms of 14.7 shall be deemed to have been selected.</p> <p>14.3 Where the security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected:</p> <p>14.3.1 The contractor shall furnish the employer with a cash deposit equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date</p> <p>14.3.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT), and refund the balance to the contractor</p> <p>14.3.3 Within twenty-one (21) calendar days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor</p> <p>14.3.4 On the date of payment of the amount in the final payment certificate, the employer shall refund the remainder of the cash deposit to the contractor</p> <p>14.3.5 The employer shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor</p>
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	<p>14.3.6 The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party</p> <p>14.4 Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected:</p> <p>14.4.1 The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date</p> <p>14.4.2 The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender</p> <p>14.4.3 The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring</p> <p>14.4.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall issue a written demand in terms of the variable construction guarantee</p> <p>14.5 Where security as a fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.5.1 The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT)</p> <p>14.5.2 The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion</p> <p>14.5.3 The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring</p> <p>14.5.4 The payment reduction of the value certified in a payment certificate shall be in terms of 31.8(A) and 34.8</p> <p>14.5.5 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or may do both</p> <p>14.6 Where security as a cash deposit of five per cent (5%) of the contract sum (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.6.1 The contractor shall furnish the employer with a cash deposit equal in value to five per cent (5%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date</p> <p>14.6.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor</p> <p>14.6.3 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(A)</p> <p>14.6.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both</p> <p>14.7 Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.7.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(B)</p>
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- 14.7.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the **contractor**
- 14.8 Payments made by the guarantor to the **employer** in terms of the fixed or variable **construction guarantee** shall not prejudice the rights of the **employer** or **contractor** in terms of this **agreement**
- 14.9 Should the **contractor** fail to furnish the **security** in terms of 14.2 the **employer**, in his sole discretion, and without notification to the **contractor**, is entitled to change the **contractor's** selected form of **security** to that of a ten per cent (10%) payment reduction of the value certified in the **payment certificate** (excluding VAT), whereafter 14.7 shall be applicable
- 15.1.1 No clause
- 15.1.2 The **security** selected in terms of 14.0
- 15.1.4 Add 15.1.4 as follows:
- An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993 as amended), within twenty-one (21) **calendar days** of **site handover date**
- 15.2.1 Under 41: Amend to read as follows:
- “Give the **contractor** possession of the **site** within ten (10) **working days** of the **commencement date**.
- 17.1.11 Delete the words “and the appointment of **nominated** and **selected subcontractors**”
- 20.1.3 No clause
- 21.0 No clause
- 26.1.2 Add # next to 26.1.2
- 29.2.5 No clause
- 31.5.2 Security adjustments in terms of 14.0 or 31.8
- 31.8 Amend as follows:
- 31.8(A) Where a **security** is selected in terms of 14.1; 14.5 or 14.6, the value of the **works** in terms of 31.4.1 and of the **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:
- 31.8(A).1 Ninety-five per cent (95%) of such value in interim **payment certificates** issued up to the date of **practical completion**
- 31.8(A).2 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**
- 31.8(A).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6
- 31.8(A).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**.

	<p>31.8(B) Where security is a payment reduction in term of 14.7 has been selected the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p> <p>31.8(B).1 Ninety per cent (90%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>31.8(B).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</p> <p>31.8(B).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p> <p>31.8(B).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except were the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate</p> <p>31.12 Delete the following: "Payment shall be subject to the employer giving the contractor a tax invoice for the amount due."</p> <p>32.5.1 Add the following to the end of each of these clauses: "...due to no fault of the 32.5.4 contractor" and 32.5.7</p> <p>34.1 Remove #</p> <p>34.2 Add # next to 34.2</p> <p>34.8 The principal agent shall certify one hundred per cent (100%) of the amount of the final account in the final payment certificate</p> <p>34.13 Replace "seven (7) calendar days" with "twenty one (21) calendar days" and delete the words: "subject to the employer giving the contractor a tax invoice for the amount due"</p> <p>36.1 Add the following clauses 36.1.3 to 36.1.5. under 36.1 to read as follows:</p> <p>36.1.3 refuses or neglects to comply strictly with any of the conditions of contract</p> <p>36.1.4 estate being sequestrated; liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>36.1.5 in the judgment of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract</p> <p>36.3 Remove reference to "No clause", and replace "principal agent" with "employer"</p> <p>36.7 Add the following: "Notwithstanding any clause to the contrary, on cancellation of this 37.5 agreement either by the employer or the contractor; or for any reason whatsoever, and the contractor shall on written instruction, discontinue with the works on a date stated 38.7 and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever"</p> <p>37.3.5 Replace "ninety (90)" with "one hundred and twenty (120) And 38.5.4</p>
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	<p>39.3.5 Add the following words at the end thereof: “within one hundred and twenty (120) working days of completion of such a report”</p> <p>40.2.2 under clause 41 – Replace “one (1) year” with “three (3) years”</p> <p>40.6 under clause 41 – Remove reference to no clause</p> <p>40.7.1 Change “(10)” to “(15)”</p> <p>Add the following to the end thereof:</p> <p>Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the mediator and related costs.</p>
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42.0	Part 2: Contract Data provided by the Contractor:
42.5	CONTRACT DETAILS
42.5.1	<p>Contractor:</p> <p>Postal address:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Tel: _____ Fax: _____</p> <p>TAX / VAT Registration No: _____</p> <p>Physical address:</p> <p>_____</p> <p>_____</p> <p>_____</p>

42.5.2	The accepted contract sum inclusive of tax is R _____ Amount in words: _____
42.5.3 [31.3]	The latest day of the month for the issue of an interim payment certificate : _____
42.5.4 [32.12]	The preliminaries amounts shall be paid in terms of: Alternative A <input type="checkbox"/> Alternative B <input type="checkbox"/>
42.5.5 [32.12]	The preliminaries amounts shall be adjusted in terms of: Alternative A <input type="checkbox"/> Alternative B <input type="checkbox"/>
42.5.7 [14]	<p>The security to be provided by the contractor:</p> <p>(a) in respect of contracts up to R1 million, the contractor will provide security in terms of 14.1</p> <p>(b) in respect of contracts above R1 million, the contractor will provide, as security, one of the following:</p> <p>(1) cash deposit of 10 % of the contract sum (excluding VAT) Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(2) variable construction guarantee of 10 % of the contract sum (excluding VAT) (DPW-10.3 EC) Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(3) payment reduction of 10% of the value certified in the payment certificate (excluding VAT) Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(6) cash deposit of 5% of the contract sum (excluding. VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding. VAT) Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(7) fixed construction guarantee of 5% of the contract sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT) (DPW-10.1 EC) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>NB. Guarantees submitted must be issued by either an insurance company duly registered in terms of the Short-Term Insurance Act, 1998 (Act 35 of 1998) or by a bank duly registered in terms of the Banks Act, 1990 (Act 94 of 1990) on the pro-forma referred to above. No alterations or amendments of the wording of the pro-forma will be accepted.</p>
42.5.8 [29.7.2]	<p>The annual building holiday period after the commencement of the construction period:</p> <p>From: _____ to _____</p>

42.6 42.6.1	DOCUMENTS Contract documents marked and annexed hereto: Priced bills of quantities: Yes <input type="checkbox"/> No <input type="checkbox"/> Document marked as: _____ Lump sum document: Yes <input type="checkbox"/> No <input type="checkbox"/> Document marked as: _____ Guarantees: Yes <input type="checkbox"/> No <input type="checkbox"/> Document marked as: _____ Contract drawings: Yes <input type="checkbox"/> No <input type="checkbox"/> Document marked as: _____ Other documents: Yes <input type="checkbox"/> No <input type="checkbox"/> (<i>Attach additional pages if more space is required</i>) _____ _____ _____ _____ _____ _____
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Fixed Construction Guarantee – JBCC

FIXED CONSTRUCTION GUARANTEE
JBCC 2000 PRINCIPAL BUILDING AGREEMENT
(Edition 4.1 of March 2005)

HEAD OF DEPARTMENT

Error! Reference source not found.

GOVERNMENT OF THE REPUBLIC OF SOUTH AFRICA

TO: CFO - Mr B Slingers

Error! Reference source not found.

Sir,

**FIXED CONSTRUCTION GUARANTEE FOR THE EXECUTION OF A CONTRACT
IN TERMS OF JBCC 2000 (4.1 EDITION MARCH 2005)**

1. With reference to the contract between _____
_____ (hereinafter referred to as the "**contractor**") and the Government of the Republic of South Africa in its DEPARTMENT OF ROADS & PUBLIC WORKS (hereinafter referred to as the "**employer**"), Contract/Tender No: DRPW 029/2021 for THE CONSTRUCTION OF THE NEW COLLEGE KIMBERLEY PHASE 2A

(hereinafter referred to as the "contract") in the amount of R _____,
(_____),
(hereinafter referred to as the **contract sum**),

I / We, _____

in my/our capacity as _____ and hereby

representing _____ (hereinafter referred to as the "**guarantor**")
advise that the **guarantor** holds at the **employer's** disposal the sum of R _____,
(_____)
being 10% of the **contract sum** (excluding VAT), for the due fulfilment of the contract.
2. The **guarantor** hereby renounces the benefits of the exceptions *non numeratae pecunia; non causa debiti; excussionis et divisionis*; and all other exceptions which could be pleaded against the enforcement of this guarantee, with the meaning and effect whereof I/we declare myself/ourselves to be conversant, and undertake to pay the **employer** the amount guaranteed, during the period when the claim is received by the **guarantor**, on receipt of a written demand from the **employer** to do so, and which demand the **employer** may make if the **employer** has a right of recovery against the **contractor** in terms of 33.0 of the contract.
3. Subject to the above, but without in any way detracting from the **employer's** rights to adopt any of the procedures provided for in the contract, the said demand can be made by the **employer**, at any stage prior to the expiry of this guarantee.
4. The amount paid by the **guarantor** in terms of this guarantee may be retained by the **employer** on condition that upon the issue of the last final **payment certificate**, the **employer** shall account to the **guarantor** showing how this amount has been expended and refund any balance due to the **guarantor**.
5. The **employer** shall have the absolute right to arrange his affairs with the **contractor** in any manner which the **employer** deems fit and the **guarantor** shall not have the right to claim his release on account of any conduct alleged to be prejudicial to the **guarantor**. Without derogating from the foregoing, any compromise, extension of the **construction period**, indulgence, release or variation of the **contractor's** obligation shall not affect the validity of this guarantee.

6. This undertaking is neither negotiable nor transferable, and
- (a) must be surrendered to the **guarantor** at the time when the **employer** accounts to the **guarantor** in terms of clause 4 above, or
 - (b) shall lapse on the date of the last **certificate of practical completion**; and
 - (c) shall not be interpreted as extending the **guarantor's** liability to anything more than payment of the amount guaranteed.

SIGNED AT _____ ON THIS _____ DAY OF
_____ 201__

AS WITNESS

- 1. _____
- 2. _____

By and on behalf of

(insert the name and physical address of the guarantor)

NAME: _____

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

DATE: _____

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

Variable Construction Guarantee – JBCC

VARIABLE CONSTRUCTION GUARANTEE
JBCC 2000 PRINCIPAL BUILDING AGREEMENT
(Edition 4.1 of March 2005)

HEAD OF DEPARTMENT
DEPARTMENT OF ROADS AND PUBLIC WORKS
GOVERNMENT OF THE REPUBLIC OF SOUTH AFRICA

TO: CFO – Mr B Slingers
Tebogo Leon Tume Complex
9-11 Stockroos Stree
Square Hill Park
KIMBERLEY, 8301

Sir,

VARIABLE CONSTRUCTION GUARANTEE FOR THE EXECUTION OF A CONTRACT IN TERMS OF JBCC 2000
(4.1 EDITION MARCH 2005)

5. With reference to the contract between _____

_____ (hereinafter referred to as the “**contractor**”) and the Government of the Republic of South Africa, in its DEPARTMENT OF ROADS & PUBLIC WORKS, (hereinafter referred to as the “**employer**”),
Contract/Tender No: DRPW 029/2021 **Error! Reference source not found.** for the NURSING COLLEGE KIMBERLEY PHASE 2A

(hereinafter referred to as the “contract”) in the amount of R _____,
(_____) (hereinafter referred as the **contract sum**),

I / We, _____

in my/our capacity as _____ and hereby

representing _____ (hereinafter referred to as the “**guarantor**”) advise that the **guarantor** holds at the **employer's** disposal the sum of R _____,
(_____)
being 10% of the **contract sum** (excluding VAT), for the due fulfilment of the contract.

6. I / We advise that the **guarantor's** liability in terms of this guarantee shall be reduced as follows:

- (a) From and including the date on which this guarantee is issued and up to and including the date of payment of the amount in the last final **payment certificate**, the **guarantor** will be liable in terms of this guarantee to the maximum amount of 10% of the **contract sum** (excluding VAT);
- (b) From and including the day after the date of the last **certificate of practical completion** and up to and including the date of the last **final completion** certificate, the **guarantor's** liability will be reduced to 3% of the value of the works (excluding VAT);
- (c) From and including the day after the date of the last **final completion** certificate and up to and including the date of settlement of the amount in the last final **payment certificate**, the **guarantor's** liability will be reduced to 1% of the value of the works (excluding VAT);
- (d) This guarantee shall expire on the date of payment of the amount in the last final payment certificate.

7. The **guarantor** hereby renounces the benefits of the exceptions *non numeratae pecunia; non causa debiti; excussionis et divisionis*; and all other exceptions which could be pleaded against the enforcement of this guarantee, with the meaning and effect whereof I/we declare myself/ourselves to be conversant, and undertake to pay the **employer** the amount guaranteed, during the period when the claim is received by the **guarantor**, on receipt of a written demand from the **employer** to do so, and which demand the **employer** may make if the **employer** has a right of recovery against the **contractor** in terms of 33.0 of the contract.
- (c) Subject to the above, but without in any way detracting from the **employer's** rights to adopt any of the procedures provided for in the contract, the said demand can be made by the **employer** at any stage prior to the expiry of this guarantee.
 - (d) The amount paid by the **guarantor** in terms of this guarantee may be retained by the **employer** on condition that upon the issue of the last final **payment certificate**, the **employer** shall account to the **guarantor** showing how this amount has been expended and refund any balance due to the **guarantor**.
 - (e) The **employer** shall have the absolute right to arrange his affairs with the **contractor** in any manner which the **employer** deems fit and the **guarantor** shall not have the right to claim his release on account of any conduct alleged to be prejudicial to the **guarantor**. Without derogating from the foregoing, any compromise, extension of the construction period, indulgence, release or variation of the **contractor's** obligation shall not affect the validity of this guarantee.
 - (f) This undertaking is neither negotiable nor transferable, and
- (a) must be surrendered to the **guarantor** at the time when the **employer** accounts to the **guarantor** in terms of clause 5 above, or
 - (b) shall lapse in accordance with clause 2(d) above; and
 - © shall not be interpreted as extending the **guarantor's** liability to anything more than the payment of the amount guaranteed.

SIGNED AT _____ ON THIS _____ DAY OF

_____ 20__

AS WITNESS

3. _____

4. _____

By and on behalf of

(insert the name and physical address of the guarantor)

NAME: _____

CAPACITY: _____
(duly Authorized thereto by resolution attached marked Annexure A)

DATE: _____

D. No alterations and/or additions of the wording of this form will be accepted

- E. The physical address of the guarantor must be clearly indicated and will be regarded as the guarantor's *domicilium citandi et executandi*, for all purposes arising from this guarantee.
- F. This GUARANTEE must be returned to: _____
- _____

PART C3: SCOPE OF WORKS

Scope of Works – JBCC

SCOPE OF WORKS
JBCC 2000 PRINCIPAL BUILDING AGREEMENT
(Edition 4.1 of March 2005)

PROJECT	NURSING COLLEGE KIMBERLEY PHASE 2A
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C3. Scope of Works

EXTENT OF THE WORKS

The works consist of the construction of the new **Nursing College Kimberley Phase 2A** for the Department of Roads and Public Works on behalf of the Department of Health of the Northern Cape Province.

The following structures are to be erected:

Resource Centre – Library & Computer Labs
Support Service – Waste, Laundry, Plant, Cleaners & Maintenance
Students Support – Students Centre & Cafeteria
Academic Instruction – Lecture Hall & Simulation Labs
Fitness Centre – Gym, Ablutions & Swimming Pool
Institutional Support – Administration
Security & Control – Gate Houses & Foyer
Related Services & Site works

ORDER OF THE WORKS

As per contractor's preliminary programme and as agreed by the Project Manager and not to exceed the contract period.

ACCESS

The site is at Kimberley, next to the **New Mental Health Hospital Complex**, access to the premises will be pointed out by the representative of the Department on site.

Health and Safety Specification

STANDARD HEALTH AND SAFETY SPECIFICATION

Standard Bills

These specifications shall be used in conjunction with all other applicable Health and Safety specifications, Legislation as in Occupational Health and Safety Act no. 85 of 1993 as amended by Act no.181 of 1993, the Construction Regulations as promulgated in 2014 and incorporated into the OHS Act by Government Notice No. R1010 published in Government Gazette 25207, General Safety Regulations as promulgated on 18 July 2006 and incorporated into the OHS Act by Government Notice No. 1010 published in Government Gazette 25207 and all other relevant regulations incorporated into the OHS Act as well as ISO 9 000, all Environmental legislation such as:

- Environment Conservation Act No. 73 of 1989
- National Water Act No. 36 of 1998
- Hazardous Substances Act No. 15 of 1973
- Atmospheric Pollution Prevention Act No.45 of 1965
- Physical Planning Act 88 of 1967

GENERAL

- Client

The Client, Department of Roads and Public Works, shall execute his duties as per Regulation 4 of the Construction Regulations of 2003 that states *inter alia*, the following:

1. A client shall be responsible for the following in order to ensure compliance with the provisions of the Act-
 - (a) Prepare health and safety specifications for the construction work, and provide any Contractor who is making a bid or appointed to perform work for the client with the same;
 - (b) Appoint each Contractor in writing for the project or part thereof on a construction site;
 - (c) Take reasonable steps to ensure that each Contractor's health and safety plan is implemented and maintained on the construction site. Provided that the steps taken, shall include periodic audits at intervals, mutually agreed upon between the client and the Contractor, but at least once every month;
 - (d) Stop any Contractor from executing construction work, which is not in accordance with, the Contractor's health and safety plan;
 - (e) Ensure that where changes are brought about to the design or construction, sufficient health and safety information and appropriate resources are made available to the principal contractor to execute the work safely;
 - (f) Ensure that every Contractor is registered and in good standing with the Compensation fund or with a licensed compensation insurer prior to commencing on site.
 - (g) Ensure that potential principal contractors submitting tenders, have made provision for the cost of health and safety measures during construction process.

Therefore, the following specifications from the Client to the Contractor:

- Each and every Contractor shall make the following appointments and provide the necessary training accordingly:

- (a) Construction Works Supervisor
- (b) Health and Safety Representatives
- (c) Health and Safety Committee
- (d) Machinery Supervisor
- (e) Excavation Inspector
- (f) And all the necessary appointments as per the OHS Act and the relevant Regulations

All appointments should be completed before work commencement, signed, dated and completed in full, be fully explained to the nominated individual and should be at all times displayed on Site Notice Board that will have to be at least 600mm by 800mm.

- The Site Notice Board should also inter alia, have the following information on it:
 - a. Site regulations concerning safe working procedures
 - b. Information on the nearest first-aid station
 - c. Ambulance
 - d. Doctor
 - e. CSO's number and
 - f. Other relevant persons
- Each and every Contractor shall give notification of Construction work to the Office of the Department of Labour **PRIOR** to commencement of work.
- Each Contractor shall provide the Client with a Pre Site establishment checklist
- Each Contractor shall to monthly safety audits on the project and provide the Client with a copy thereof
- Each Contractor shall provide to the Client a Health and Safety Representative inspection checklist and ensure that Health and Safety representatives do inspections at least on a monthly basis
- Each Contractor shall provide and demonstrate to the Client a Health and Safety management policy
- As per the General Safety Regulations Regulation 4 as contemplated in the Basic Conditions of Employment Act, No. 3 of 1983, have the relevant amount of trained First-Aiders on site.
- In terms of Regulation 3 of the General Safety Regulations, provide a first-aid box or boxes on the premises of work
- In terms of Section 23 of the OHS Act, provide all workers at all times, with the necessary PPE.
- In terms of the Facilities Regulations provide the necessary facilities such as proper ablution, during space, lockers and any other item as per the Facilities Regulations that is necessary to carry out the work safely and without risk to the health of the workers.
- Keep an incident record book on site at all times.

SAFE WORKING LOADS

The Contractor shall ensure that where applicable:

- safe working loads of hoists, load bearing beams and cranes are prominently displayed at all times.
- The safe working loads are not exceeded under any circumstances.
- All lifting gear is marked with a unique identity number and recorded in a register

ELECTRICAL EQUIPMENT AND PROCEDURES USED BY THE CONTRACTOR

All electrical equipment shall be regularly inspected by a qualified electrician, who shall be appointed by the Contractor. And the inspections shall be logged. The frequency of inspections shall be determined by the Client. A record of the inspections shall be kept and shall be made available to the Client on request

The Contractor shall ensure that all his electrical equipment conforms to operational and safety requirements.

All earth leakage units shall be tested at intervals of not more than one month and signed for by a qualified electrician.

COMMISSIONING SAFETY PRECUATIONS

The Contractor shall ensure that wherever repairs, adjustments of any other work are undertaken on any plant or machinery, the power supply is switched off, disconnected or the plant/machinery disengaged until the work or repairs have been completed.

A Certificate of Completion by a qualified master electrician will be issued after electrical work is completed.

TOXIC MATERIALS

The Contractor shall exercise all necessary care in the handling of toxic compounds and shall be able to identify the major chemical components in the event of medical treatment being required.

A designated route as well as a dumping site will be identified for the transportation and disposal of waste material by the service provider.

INDEMNITY OF THE CLIENT AND HIS AGENTS

Annexure A to this Specification contains a "Mandatory Form of Authority and Agreement in terms of Section 37(2) of the Occupational Health and Safety Act No 85/93, as amended, which agreement shall be entered into and duly signed by both the Client and the Contractor prior to commencement of work. A copy of the signed agreement shall be included in the Contractor's Health and Safety Plan.

Any acceptance, approval, check, certificate, consent, examination, inspection, instruction, notice observation, proposal, request, test or similar act by either the Client or any of his Agents, including lack of disapproval, shall not relieve the Contractor from any responsibility he has under the Act and the relevant regulations (Construction Regulation), including responsibility for errors, omissions, discrepancies and non-compliance.

SPECIFIC REQUIRMENTS

Design

No significant hazards can be identified which have not been considered in the detailed design. However, hazard must be anticipated that are due to and arising from shoddy and careless workmanship and unconventional construction methods used by semi-qualified and unqualified craftsmen during skills transfer.

Work sequences are a logical progression of the construction of a building under consideration of the tender documentation, National Building Regulations, Regulations, the Standard Occupational Health and Safety Specifications, other specifications and manufacturers' instructions.

Security

The Contractor's material site must be properly secured.

Existing environment

The surrounding roads and properties will be pointed out to the Contractor at site handover.

If the flow of traffic is in no way going to be hampered by the contractor's work, the necessary traffic authorities must be immediately informed.

Existing services

All known services will be pointed out at site handover.

Contractors must recognize that all services on the site must be expected to be "live" and potentially critical to the safe functioning of the works. Precautions for any work on or near them should be identified, planned, approved and taken accordingly.

In the event that previously unidentified services are discovered, Contractors shall immediately refer detail of location, suspected condition and status to the Client and await instruction. On no account must any services be interfered with without specific instruction and authority.

Ground conditions

As per the geotechnical assessment.

Related restrictions affecting health and safety

Being in a residential area, normal daytime working hours are to be adhered to in order to minimize disturbance to surrounding residences.

No unauthorized blasting in a residential area will be done without authorization from the client.

Control of pollution

All rubble, refuse, etc. is to be disposed of in accordance with the municipal by-laws.

Needed to mention, the above mentioned health and safety specifications should be used in accordance with the standard specifications as can be found in the existing tender document of the Client.

The Client can and will, if necessary and in the interest of health and safety, amends the above mentioned specifications.

An identified and agreed dumping site will be used in case of hazardous material. A disposal certificate will be issued by the contractor after disposal.

- **Principal Contractor and Contractor**

In terms of Regulation 5 of the Construction Regulations, after receiving the health and safety specifications from the Client, the Principal Contractor shall provide and demonstrate to the Client a Health and Safety Plan. This Health and Safety Plan shall indicate that the (Contractor) shall perform, but is not limited to, the following duties:

GENERAL REQUIREMENTS

- Administration
- Appointments
- Safety committees
- Registers, Checklists and permits
- Incident management
- Emergency planning
- Contractors
- Risk assessment
- Audits
- Hazardous substance control
- Training
- Additional requirements
- Planning

Annexure:

The following annexures should be attached to the Health and Safety Plan and the format should be agreed upon between the Client and the Contractor:

- Pro forma for Construction Works Supervisor appointment
- Pro forma for Health and Safety Representative Appointment and his IOSH membership
- Pro forma for Machinery Supervisor appointment
- Pro forma for Excavation Inspector appointment
- Pro forma for Notification of Construction Work
- Pro forma – Pre Site Inspection Checklist
- Monthly Safety Audit Checklist
- Health and Safety Representative Inspection checklist
- Health and Safety Management Policy

CONCLUSION

The objectives of this document is to outline all necessary procedures required to implement and maintain a comprehensive Occupational Health and Safety System for Construction Projects in line with specifications prescribed by the Department of Roads and Public Works.

It is general business imperative of the Department of Roads and Public Works to understand and embrace safe working procedures. Violations of simple safety procedures can lead to injury and even loss of life. Every accident, no matter how minor, can be translated into costs against the Project. These costs are both direct (damage to property, medical expenses, etc.) and indirect (investigation proceedings, disruption of work, delay in program, plant replacements, etc).

In order for an easier understanding of legislative requirements in particular with regard to the Construction Regulations this proposed planning document has been compiled in a very simplistic manner. It will therefore not focus on each and every scenario that may arise and does not intend to convey all requirements of statutes other than the following:

1. Occupational Health and Safety Act No. 85/93 as amended by Act No. 181/93
2. Incorporated Regulations of the Act – Construction Regulations of 2003
3. Relevant SABS codes of the Practice as per Section 40 of the OHS Act.
4. Compensation for Occupational Injury and Diseases Act no. 130 of 1993 as amended.

STANDARD ABBREVIATIONS

OCCUPATIONAL HEALTH AND SAFETY

ITEM	TERM	ABBREVIATION
1	Health and Safety	H&S
2	Occupational Health and Safety	OHS
3	Safety Health and environment Representative	SHE REP
4	Hazard Identification and Risk Assessment	HIRA
5	Personal Protective Equipment	PPE
6	General Administrative Regulations	GAR
7	Facilities Regulations	FR
8	General Safety Regulations	GSR
9	Environmental Regulations	ER
10	Electrical Installation Regulations	EIR
11	Asbestos Regulations	AR
12	Driven Machinery Regulations	DMR
13	General Machinery Regulations	GMR
14	Electrical Machinery Regulations	EMR
15	Diving Regulations	DR
16	Lead Regulations	LR
17	Vessels under Pressure Regulations	VPR
18	Regulations for Hazardous Chemicals Substances	HAZCHEM Reg.
19	Major Hazard Installation Regulations	MHIR
20	Construction Regulations	CR
21	Mines Health and Safety Act	MHS ACT
22	Compensation for Occupational Injuries and Diseases Act	COIDA
23	South African Bureau of Standards	SABS
24	Construction Safety Officer	CSO
25	Medical Safety Data Sheet	MSDS
26	Tunneling Regulations	TR
27	Traffic Calming Devices	TCD
28	Environmental Impact Assessment	EIA
29	Hazardous Chemical Substances	HCS
30	Dangerous Goods	DG
31	Dry Chemical Powders	DCP

HEALTH AND SAFETY SPECIFICATION

BREAKDOWN OF MINIMUM EXPECTED COST ITEMS

CARRY TOTAL TO SECTION C, CLAUSE C11 OF PRELIMINARIES

NO	GENERAL REQUIREMENTS	STATUE	QUANTITY	RATE	AMOUNT
1	Contractor's Health and safety Plan	Regulation 5 of CR	1/site		
2	Contractor's full time construction Supervisor	Regulation 6(1) of CR	1/site		
3	Risk Assessment	Regulation 7(1)	1/site		
4	Fall protection plan	Regulation 8(1)	1/site		
5	Demolition work	Regulation 12 (1) of CR	1		
6	Scaffolding and suspended platforms supervisor (Full time)	Regulation 14(1) of CR	1		
7	Construction welfare facilities	Regulation 28(1)	1		
8	Health and safety induction	Section 13 of OHS ACR 85/93	1		
9	Trained health and safety representatives	Section 17 and 18 of OHS ACT 85/93	2 rep for every ten employees		
10	Trained health and safety committee(s)	Section 19 and 20 of OHS ACT	At least one (1) Committee		
11	Provision of PPE for workers free of charge at employer's expense	Section 23 of OHS Act 85/93	All workers on site		
12	Provision of trained first-aiders full time on site	Regulation 3(94) of GSR	2 trained first-aiders for up to every 10 employees		
13	Log books including health and safety file full time on site	Regulation 8(1) of GAR	1		
14	Notices on site	Regulation 11(1) of GAR	3		
15	Safety straps, safety harnesses, safety rails and safety devices	Section 8 of OHS ACT 85/93			
16	Full time health and safety officer on site		1		
17	Compliance to health and safety protocols related to the Covid-19 must clearly be incorporated into the Health and Safety Plan		1		
TOTAL CARRIED TO THE PRELIMINARIES CLAUSE C11 IN SECTION C OF THE PRELIMINARIES AND GENERAL					

PART C4: SITE INFORMATION

Site Information – JBCC

SITE INFORMATION
JBCC 2000 PRINCIPAL BUILDING AGREEMENT
(Edition 4.1 of March 2005)

Project title:	NURSING COLLEGE KIMBERLEY PHASE 2A
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C4 Site Information

1. LOCATION AND ACCESS

The site is located at Kimberley

Please contact the project leader for confirmation of the site. The project leader for this project is:

Mr. Jewis September, contact the department at 053 839 2258 for more information.

2. NATURE OF THE GROUND

Geotechnical test have been conducted on the site to determine the nature of the ground. Tenderers / Bidders must however inspect the premises in order to make themselves thoroughly acquainted with the nature of the ground. No claims what so ever will be entertained spreading from a bidder that did not attend the site meeting or did not familiarise himself with the conditions at the premises.

PART C2 : PRICING DATA

PRICING INSTRUCTIONS

JBCC 2000 PRINCIPAL BUILDING AGREEMENT

(Edition 4.1 of March 2005)

C2.1 Pricing Instructions

1. BILLS OF QUANTITIES

The pricing strategy adopted for this project is the **provisional bills of quantities** which forms part of and must be read and priced in conjunction with all the other documents forming part of the **contract documents**, the Standard Conditions of Tender, Conditions of Contract, Specifications, Drawings and all other relevant documentation.

The Standard System of Measuring Building Work referred to in Clause 41.4.3 of Section 1: Preliminaries (Section A), has reference. Except where stated otherwise or where it is clear from the contents of the measured items, these bills of quantities have been compiled in accordance with the "Standard System of Measuring Building Work" 6th edition (as amended), issued by the Association of South African Quantity Surveyors. All measurements and payments will be done in accordance with the principles as laid down in the said Standard System of Measuring Building Work.

2. GENERAL PREAMBLES

For further amplification of descriptions of materials to be used and methods to be adopted, the contractor is referred to the Specification of Materials and Methods to be used (PW371) as published by the Department of Public Works (fourth revision, October 1993), the relevant descriptions which shall be deemed to be read and priced in conjunction with the descriptions in the **provisional bills of quantities**. No claims arising from brevity of description of items fully described in the said specification will be entertained.

The document Specification of Materials and Methods to be used (PW371) is obtainable on request from the head office and all regional offices of the Department.

3. ORDERING OF MATERIALS

The Contractor shall place orders timeously for materials or specified articles that are required. Should the **bills of quantities** be used for ordering materials, this shall be entirely at the contractor's risk.

4. IMPORTED MATERIALS AND EQUIPMENT

Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, material or equipment shall be excluded from currency fluctuations. (Refer to form DPW-23 EC for the Schedule of imported materials and equipment to be completed by the tenderer).

Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable).

5. VALUE ADDED TAX

The tender price must include for Value Added Tax (VAT). All rates, provisional sums, etc. in the **bills of quantities** must however be net (exclusive of VAT) with VAT calculated and added to the Total Value thereof in the Final Summary.

6. PRIME COST AMOUNTS

Prime cost amounts are a net allowance, excluding VAT, for materials only, and the tenderer should allow for the necessary labour, wastage, profit, etc in pricing these items.

7. EXISTING SERVICES

During construction in the various areas, it is anticipated that unknown live services will be exposed and temporary deviations will need to be constructed. The Contractor will be deemed to have made due allowance in his programming and pricing of the Bills of Quantities for possible delays due to the existence of unknown live services and no extension of time claims will be entertained in this regard.

8. SECURITY

The Contractor is to provide for his own site security and is to co-ordinate overall site security with any Nominated Sub-Contractors.

9. ACTS OF PARLIAMENT, ORDINANCES, REGULATIONS AND BY-LAWS AND OCCUPATIONAL HEALTH AND SAFETY ACT (ACT 85 OF 1993 – SECTION 37 [2])

Reference made to, or requirements called for in terms of the provisions of any Act of Parliament, Ordinance and the Regulations or By-Laws of any local or other statutory authority shall not in any way limit the Tenderer / Contractor's liability or obligations to familiarise himself with and comply with the provisions of all Acts of Parliament, Ordinances and the Regulations or By-Laws of any local or other statutory authority which may be applicable.

The Tenderer's attention is drawn to the fact that the Occupational Health and Safety Act (Act 85 of 1993 – Section 37[2]) is in force. Copies of the Act as well as the Construction Regulations 2003, issued in terms of the Act, are available from the Government Printing Works, 149 Bosman Street, Pretoria (Private Bag X85, Pretoria, 0001. Tel. 012 – 334 4500)

The Contractor is to provide the appropriate number of Safety Officers required for the execution of the full project and for the duration of the entire contract.

These Bills of Quantities contain items relating to the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act 85 of 1993). Tenderers must price separately all the relevant items under clause C11 of the Preliminaries to enable the Department to ensure that tenderers have made provision for the cost of all health and safety measures during the construction process.

10. CONTRACT PRICE ADJUSTMENT PROVISIONS (ESCALATION)

This Contract will be / ~~will not~~ be subject to escalation in terms of the JBCC Contract Price Adjustment Provisions.

11. LOCAL LABOUR

The Tenderer's attention is specifically drawn to Clause 13, Section 1: Preliminaries (Section C) of these Bills of Quantities.

It is strongly recommended that the successful Contractor appoint a community facilitator in order to facilitate the requirements of Clause 13 of the Preliminaries (Section C).

It must be clearly understood that should a community facilitator be appointed; he will remain the full responsibility of the Contractor and no claims will be entertained in this respect.

12. EXPENSES IN PREPARATION OF TENDERS

The Employer will not be responsible for, or pay for, any expenses or losses incurred by the Tenderer during the preparation of his tender.

C2.2- Provisional Bills of Quantities

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p>The agreement is to be the JBCC Series 2000 Principal Building Agreement, Edition 4.1 March 2005, and other contract documents that together form the contract between the employer and contractor</p> <p>The preliminaries are to be the JBCC Series 2000 Code 2103 Preliminaries prepared by the Joint Building Contracts Committee, May 2005 edition and shall be deemed to be incorporated herein</p> <p>Tenderers are referred to the above mentioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary</p> <p>Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading</p> <p>Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")</p> <p>If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time</p> <p><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></p>			
	Carried to Collection		R	
	Section No. 1 Bill No. 1 Preliminaries			

<u>Definitions (A1)</u>					
1	Definitions and interpretation (clause 1) F.....V.....T.....	Item			
<u>Objective and Preparation (A2 to A14)</u>					
2	Offer acceptance and performance (clause 2) F.....V.....T.....	Item			
3	Documents (clause 3) F.....V.....T.....	Item			
4	Design responsibility (clause 4) F.....V.....T.....	Item			
5	Employer's agents (clause 5) F.....V.....T.....	Item			
6	Site representative (clause 6) F.....V.....T.....	Item			
7	Compliance with regulations (clause 7) F.....V.....T.....	Item			
8	Works risk (clause 8) F.....V.....T.....	Item			
9	Indemnities (clause 9) F.....V.....T.....	Item			
10	Works insurances (clause 10) F.....V.....T.....	Item			
Carried to Collection				R	
Section No. 1 Bill No. 1 Preliminaries					

11	Liability insurances (clause 11) F.....V.....T.....	Item			
12	Effecting insurance (clause 12) F.....V.....T.....	Item			
13	NO CLAUSE 13.	N/A			
14	Security (clause 14) F.....V.....T.....	Item			
<u>Execution (A15-A23)</u>					
15	Preparation for and execution of the works (clause 15) F.....V.....T.....	Item			
16	Access to the works (clause 16) F.....V.....T.....	Item			
17	Contract instructions (clause 17) F.....V.....T.....	Item			
18	Setting out of the works (clause 18) F.....V.....T.....	Item			
19	Assignment (clause 19) F.....V.....T.....	Item			
20	Nominated subcontractors (clause 20) F.....V.....T.....	Item			
21	Selected subcontractors (clause 21) F.....V.....T.....	Item			
Carried to Collection			R		
Section No. 1 Bill No. 1 Preliminaries					

22	Employer's Direct Contractors (clause 22) F.....V.....T.....	Item		
23	Contractor's Domestic Sub-Contractors (Clause 23) F.....V.....T.....	Item		
<u>Completion (A24-A30)</u>				
24	Practical completion (clause 24) F.....V.....T.....	Item		
25	Works completion (clause 25) F.....V.....T.....	Item		
26	Final completion (clause 26) F.....V.....T.....	Item		
27	Latent defects liability period (clause 27) F.....V.....T.....	Item		
28	Sectional completion (clause 28) F.....V.....T.....	Item		
29	Revision of date of practical completion (clause 29) F.....V.....T.....	Item		
30	Penalty for non-completion (clause 30) The date for practical completion shall be 24 Months from the commencement date and the penalty per calendar day shall be R 57 000.00 for <i>late completion</i> F.....V.....T.....	Item		
Carried to Collection			R	
Section No. 1 Bill No. 1 Preliminaries				

<u>Payment (A31 - A35)</u>					
31	Interim payment to the contractor (clause 31) Clause 31.4.2 is amended by adding the following Materials and goods stored off site shall not be included in the amount authorised for payment Clause 31.9 is amended by replacing 7 calendar days by 30 calendar days F.....V.....T.....	Item			
32	Adjustment to the contract value (clause 32) F.....V.....T.....	Item			
33	Recovery of expense and loss (clause 33) F.....V.....T.....	Item			
34	Final account and final payment (clause 34) F.....V.....T.....	Item			
35	Payment to other parties (clause 35) F.....V.....T.....	Item			
<u>Cancellation (A36-A39)</u>					
36	Cancellation by employer - contractor's default (clause 36) F.....V.....T.....	Item			
37	Cancellation by employer - loss and damage (clause 37) F.....V.....T.....	Item			
38	Cancellation by contractor - employer's default (clause 38) F.....V.....T.....	Item			
Carried to Collection				R	
Section No. 1 Bill No. 1 Preliminaries					

39	Cancellation - cessation of the works (clause 39) F.....V.....T..... <u>Dispute (A40)</u>	Item			
40	Dispute Settlement (clause 40) F.....V.....T..... <u>Substitute Provisions (A41)</u>	Item			
41	State clauses (Clause 41) F.....V.....T..... <u>THE SCHEDULE</u> Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder	Item			
42	Pre-tender information (clause 42) F.....V.....T.....	Item			
Carried to Collection			R		
Section No. 1 Bill No. 1 Preliminaries					

42.1 CONTRACTING AND OTHER PARTIES			
<p>42.1.1 Employer:</p> <p>Northern Cape Department of Roads and Public Works</p> <p>Postal address: 9 -11 Stokroos Street Tebogo Leon Tume Complex, Squarehill Park, Kimberley Code 8301</p> <p>Tel 053 839 2100 Fax 053 839 2291 E-mail N/A</p> <p>Physical Address:</p> <p>Northern Cape Department of Roads and Public Works 9 -11 Stokroos Street</p> <p>42.1.2 Principal Agent:</p> <p>Hospital Design Group</p> <p>Postal address: 57 Warden Street, Harrismith Code 9880</p> <p>Tel 058 622 3942 Fax N/A E-mail braam@hdg.co.za</p>			
<p style="text-align: center;">Carried to Collection</p>		R	
<p>Section No. 1 Bill No. 1 Preliminaries</p>			

42.1.3 Agents service: Architect				
Agent (1)				
Hospital Design Group Postal address: 57 Warden Street Harrismith Code 9880				
Tel 058 622 3942 Fax N/A E-mail braam@hdg.co.za				
42.1.4 Agents service: Quantity Surveyor				
Agent (2) Innovex Chartered Quantity Surveyors & Project Managers Block 10, Boardwalk Office Park Suites, Phase 6 95 Eros Road, Faerie Glen Pretoria				
Tel 012 663 1250 Fax E-mail zenda@innovex-group.co.za				
42.1.5 Agents service: Structural & Civil Engineer				
Agent (3) Ekon - Exilite Joint Venture				
Postal address:				
Code				
Tel Fax E-mail				
Carried to Collection			R	
Section No. 1 Bill No. 1 Preliminaries				

42.1.6 Agents service: Electrical Engineer				
Agent (4) MVD Kalahari Consulting Engineers and Town Planners (PTY) LTD 186 Du Toitspan Road Kimberley Code 8300 Tel 053 831 1889 Fax E-mail				
42.1.7 Agents Service : Mechanical Engineer				
Agent (5) Mekan Consulting Engineers And Deltamech Consulting Mechanical Engineers Joint Venture Code Tel Fax E-mail				
42.1.8 Agents Service : Landscaping				
Agent (6) Greeninc Landscape Architecture Code Tel Fax E-mail				
Carried to Collection			R	
Section No. 1 Bill No. 1 Preliminaries				

42.1.9 Agents Service : Health and Safety				
Agent (7) Butler and Associates				
P.O. Box 9324 Brandhof Code 9324				
Tel Fax E-mail				
42.1.10 Agents Service : Environmentalist				
Agent (8) Environmental Management Group				
Code				
Tel Fax E-mail				
<u>42.2 CONTRACT DETAILS</u>				
42.2.1 Works Description:				
Refer to the Notes to Tenderers				
42.2.2 Site Description:				
Refer to the Notes to Tenderers				
42.2.3 Work or installations by direct contractors:				
N/A				
42.2.4 This agreement is for a government contract where there are specific options that are applicable to a State organ only				
Yes				
Carried to Collection			R	
Section No. 1 Bill No. 1 Preliminaries				

<p>42.2.5 Date on which possession of the site is intended to be given: Date to be determined by contracting parties</p> <p>42.2.6 (15.3) Period for the commencement of the works after the contractor takes possession of the site <i>Ten working days</i></p> <p>42.2.7 For the works as a whole. Intended date of practical completion shall be 24 months from the commencement date and the penalty per calendar day</p> <p style="text-align: right;">R57 500.00 per day <i>Penalty Amount</i></p> <p>42.2.8 For the works in sections: Intended date of practical completion and the penalty per calendar day</p> <p style="text-align: right;">N/A</p> <p>42.2.9 The law applicable to this agreement shall be that of Republic of South Africa</p>				
<p>42.3 INSURANCES</p>				
<p>42.3.1 Contract works insurance to be effected by: <i>Contractor:</i></p> <p style="text-align: right;"><i>For the Sum of R Contract Sum + 10% with.</i></p> <p style="text-align: right;"><i>With a deductible of not exceeding 5% of each and every claim</i></p> <p>42.3.2 Supplementary insurance is required: <i>Yes to the minimum value of the Contract Sum +10%</i></p> <p>42.3.3 Public liability insurance to be effected by: <i>Contractor:</i></p> <p style="text-align: right;"><i>For the Sum of R5 000 000.00</i></p> <p style="text-align: right;"><i>With a deductible not exceeding 5% of each and every claim</i></p>				
<p style="text-align: center;">Carried to Collection</p> <p>Section No. 1 Bill No. 1 Preliminaries</p>			<p style="text-align: center;">R</p>	

42.4 DOCUMENTS				
42.4.1 Waivers of contractors lien or right of continuing possession is required <div style="text-align: right;">Yes</div>				
42.4.2 Number of construction document copies to be supplied to the contractor free of charge: <div style="text-align: right;">3 Number of construction copies</div>				
42.4.3 Bills of Quantities drawn up in accordance with: Standard System of Measuring Building Work issued by the Association of South African Quantity Surveyors Sixth edition (revised), effective date 1 April 1999 and the Tenderer's attention is specifically drawn to the 'shall be deemed to include' clauses that have to be read in conjunction with the applicable items				
42.4.4 On acceptance of the tender the bills of quantities document is to be submitted with tender submission <div style="text-align: right;">Yes</div>				
42.4.5 JBCC Engineering General Conditions are to be included in the contract documents : <div style="text-align: right;">No</div>				
42.4.6 The contract value is to be adjusted using CPAP				
Carried to Collection			R	
Section No. 1 Bill No. 1 Preliminaries				

	<p>42.4.7 Details of changes made to the provision of JBCC standard documentation:</p> <p><i>Included in the Contract Data</i></p> <p>Section A</p> <p>Clause 31 Amended</p> <p>Section B</p> <p>Clause B2.5 Amended</p> <p><u>SECTION B: PRELIMINARIES</u></p> <p><u>Definitions and interpretation (B1)</u></p> <p>43 Definition and interpretation (B1.1 - B1.4.6)</p> <p>F.....V.....T.....</p> <p><u>Documents (B2)</u></p> <p>44 Checking of documents (B2.1)</p> <p>F.....V.....T.....</p> <p>45 Provisional bills of quantities (B2.2)</p> <p>See Schedule of Variables (B12)</p> <p>F.....V.....T.....</p> <p>46 Availability of construction documentation (B2.3)</p> <p>See Schedule of Variables (B12)</p> <p>F.....V.....T.....</p> <p>47 Interests of agents (B2.4)</p> <p>F.....V.....T.....</p>				
	Carried to Collection				
	<p>Section No. 1</p> <p>Bill No. 1</p> <p>Preliminaries</p>				

48	<p>Priced documents (B2.5)</p> <p>Notwithstanding the provisions of this clause, the contractor shall deposit/submit the priced documents within the time as stated in A42.4.4 of the Schedule of Contract Variables</p> <p>Where appropriate the unit rates for similar items in the bills of quantities should be the same</p> <p>Prior to signing of the Principal Building Agreement the Principal Agent shall be at liberty to make such adjustments to individual rates, whether they are Subcontractor's rates or not, as will eliminate errors or discrepancies or which he considers to be imbalanced, unreasonable or unrealistic rates, without altering the tender sum</p> <p>F.....V.....T.....</p>	Item			
49	<p>Tender submission (B2.6)</p> <p>F.....V.....T.....</p> <p><u>The site (B3)</u></p>	Item			
50	<p>Defined works area (B3.1)</p> <p>F.....V.....T.....</p>	Item			
51	<p>Geotechnical investigation (B3.2)</p> <p>F.....V.....T.....</p>	Item			
52	<p>Inspection of the site (B3.3)</p> <p>F.....V.....T.....</p>	Item			
53	<p>Existing premises occupied (B3.4)</p> <p>F.....V.....T.....</p>	Item			
54	<p>Previous work - dimensional accuracy (B3.5)</p> <p>F.....V.....T.....</p>	Item			
Carried to Collection			R		
<p>Section No. 1 Bill No. 1 Preliminaries</p>					

55	Previous work - defects (B3.6) F.....V.....T.....	Item			
56	Services - known (B3.7) F.....V.....T.....	Item			
57	Services - unknown (B3.8) F.....V.....T.....	Item			
58	Protection of trees etc (B3.9) F.....V.....T.....	Item			
59	Articles of value (B3.10) F.....V.....T.....	Item			
60	Inspection of adjoining properties etc (B3.11) F.....V.....T.....	Item			
	<u>Management of contract (B4)</u>				
61	Management of the works (B4.1) The Contractor shall obtain all necessary particulars of Subcontractors' work timeously so that provision for recesses, chases, holes, etc, can be made F.....V.....T.....	Item			
62	Programme for the works (B4.2) F.....V.....T.....	Item			
63	Progress meetings (B4.3) F.....V.....T.....	Item			
64	Technical meetings (B4.4) F.....V.....T.....	Item			
	Carried to Collection			R	
	Section No. 1 Bill No. 1 Preliminaries				

65	Labour and Plant records (B4.5) F.....V.....T.....	Item			
<u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u>					
66	Samples of materials (B5.1) F.....V.....T.....	Item			
67	Workmanship samples (B5.2) F.....V.....T.....	Item			
68	Shop drawings (B5.3) F.....V.....T.....	Item			
69	Compliance with Manufacturer's Instructions (B5.4) F.....V.....T.....	Item			
<u>Temporary works and plant (B6)</u>					
70	Deposits and fees (B6.1) F.....V.....T.....	Item			
71	Enclosure of the works (B6.2) F.....V.....T.....	Item			
72	Advertising (B6.3) See Schedule of Variances (B12) F.....V.....T.....	Item			
73	Plant, equipment, sheds and offices (B6.4) F.....V.....T.....	Item			
74	Main notice board (B6.5) F.....V.....T.....	Item			
Carried to Collection			R		
Section No. 1 Bill No. 1 Preliminaries					

75	Subcontractors' notice board (B6.6) F.....V.....T.....	Item			
	<u>Temporary services (B7)</u>				
76	Location (B7.1) F.....V.....T.....	Item			
77	Water (B7.2) See Schedule of Variables (B12) F.....V.....T.....	Item			
78	Electricity (B7.3) See Schedule of Variables (B12) F.....V.....T.....	Item			
79	Telecommunication facilities (B7.4) F.....V.....T.....	Item			
80	Ablution facilities (B7.5) See Schedule of Variables (B12) F.....V.....T.....	Item			
	<u>Prime cost amounts (B8)</u>				
81	Responsibility for prime cost amounts (B8.1) F.....V.....T.....	Item			
	<u>Attendance on N/S Subcontractors (B9)</u>				
82	General attendance (B9.1) F.....V.....T.....	Item			
	Carried to Collection			R	
	Section No. 1 Bill No. 1 Preliminaries				

83	Special attendance (B9.2) F.....V.....T.....	Item			
84	Commissioning - Fuel, water and power (B9.3) F.....V.....T.....	Item			
<u>Financial aspects (B10)</u>					
<u>Statutory taxes, duties and levies (B10.1)</u>					
<u>In addition to the provisions of clause B10.1, all individual amounts in the bills of quantity exclude Value Added Tax (VAT) is to be calculated as a lump sum and added to the total value of all values in the Summary under the item provided for VAT</u>					
85	Payment of preliminaries (B10.2) Payment of preliminaries (B10.2) See Schedule of Variables (B12) F.....V.....T.....	Item			
86	Adjustment of preliminaries (B10.3) Notwithstanding the provisions of sub-clause B10.3.1 (Option A) and for the purpose of adjusting the Time Related amount, only revision of the date for practical completion granted by the Employer for variants, omissions, additions and substitutions referred to in sub- clauses 29.2 and 29.3 of the Principal Building Agreement, shall be taken into account As an allowance, the first ten (10) working days of the construction period is regarded as an administration period and shall be deducted from both the initial and the revised construction periods for calculation purposes F.....V.....T.....	Item			
Carried to Collection			R		
Section No. 1 Bill No. 1 Preliminaries					

87	Payment certificate cash flow (B10.4)			
	F.....V.....T.....	Item		
	<u>General (B11)</u>			
88	Protection of works (B11.1)			
	F.....V.....T.....	Item		
89	Protection/isolation of existing/sectionally occupied works (B11.2)			
	F.....V.....T.....	Item		
90	Security of the Works (B11.3)			
	F.....V.....T.....	Item		
91	Notice before covering work (B11.4)			
	F.....V.....T.....	Item		
92	Disturbance (B11.5)			
	F.....V.....T.....	Item		
93	Environmental Disturbance (B11.6)			
	F.....V.....T.....	Item		
94	Works cleaning and clearing (B11.7)			
	F.....V.....T.....	Item		
95	Vermin (B11.8)			
	F.....V.....T.....	Item		
96	Overhand work (B11.9)			
	F.....V.....T.....	Item		
Carried to Collection			R	
Section No. 1 Bill No. 1 Preliminaries				

97	Instruction manuals and guarantees (B11.10) F.....V.....T.....	Item		
98	As built information (B11.11) F.....V.....T.....	Item		
99	Tenant Installations (B11.12) F.....V.....T.....	Item		
<u>Schedule of variables (B12)</u>				
100	Pre-tender information (B12.1) F.....V.....T.....	Item		
101	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: Yes F.....V.....T.....	Item		
102	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete No F.....V.....T.....	Item		
103	12.1.3 Interest of agents (B2.4) N/A	Item		
	12.1.4 Defined works area (B3.1) Yes			
	12.1.5 Geotechnical investigation (B3.2) N/A			
	12.1.6 Existing premises occupied (B3.4) N/A			
104	12.1.7 Previous work - dimensional accuracy (B3.4) N/A	Item		
Carried to Collection			R	
Section No. 1 Bill No. 1 Preliminaries				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

105	12.1.8 Previous work - defects (B3.5) N/A	Item			
	12.1.9 Services - known (B3.7) N/A				
106	12.1.10 Protection of trees (B3.9) Yes F.....V.....T.....	Item			
107	12.1.11 Inspection of adjoining properties (B3.11) N/A	Item			
108	12.1.12 Enclosure of the works (B6.2) Yes F.....V.....T.....	Item			
109	12.1.13 Offices (B6.4.3) Yes F.....V.....T.....	Item			
110	12.1.14 Main notice board (B6.5) Yes F.....V.....T.....	Item			
	12.1.15 Subcontractors notice board (B6.6) A notice board is required No				
111	12.1.16 Water (B7.2) Yes- Option A (by contractor) No - Option B (by employer - free of charge) No - Option C (by employer - metered) F.....V.....T.....	Item			
112	12.1.17 Electricity (B7.3) Yes- Option A (by contractor) No - Option B (by employer - free of charge) No - Option C (by employer - metered) F.....V.....T.....	Item			
Carried to Collection			R		
Section No. 1 Bill No. 1 Preliminaries					

113	12.1.18 Telecommunications (B7.4) Yes- Telephone Yes- E-mail F.....V.....T.....	Item			
114	12.1.19 Ablution facilities (B7.5) Yes- Option A (by contractor) No - Option B (by employer - free of charge) F.....V.....T.....	Item			
115	12.1.20 Protection of existing/sectionally occupied works (B11.2) Protection is required: Yes F.....V.....T..... 12.1.21 Special attendance (B9.2) Subcontractors (1) details: N/A F.....V.....T..... 12.1.22 Protection of the works (B11.1) N/A 12.1.23 Disturbance (B11.5) N/A 12.1.24 Environmental Disturbance (B11.6) N/A <u>Post tender information (B12.2)</u> 12.2.1 Payment of preliminaries No - Option A (prorated) Yes - Option B (calculated)	Item			
Carried to Collection				R	
Section No. 1 Bill No. 1 Preliminaries					

116	12.2.2 Adjustment of preliminaries Yes - Option A (three categories) No - Option B (detailed breakdown) F.....V.....T..... 12.2.3 Additional agreed preliminaries items N/A <u>SECTION C: SPECIFIC PRELIMINARIES</u> C1 INSPECTION OF WORKS	Item			
117	Allow for three weeks inspection of works prior to commencement of works, all findings shall be commutated to Project Manager for further contract instructions N/A	Item			
118	Allow for four weeks remedial of works before proceeding with works N/A	Item			
119	All construction processes are to be strictly carried out according to the latest revision of Department of Public Works Construction Specifications PW371 F.....V.....T.....	Item			
	<u>Community Liaison Officer (CLO)</u>				
120	Provide the amount of R204 000.00 (Two Hundred and Four Thousand Rand) NET for CLO	Item			
121	Profit for item	Item			
122	Allow for general attendance	Item			
	<u>JBCC SERIES 2000 EDITION 5.0</u>				

123	<p><u>EXECUTION (15-23)</u></p> <p>Preparation for and execution of the works (Clause 15.0)</p> <p>F.....V.....T.....</p> <p>15.1 After acceptance of the tender or negotiated amount the contractor shall submit to the principal agent within the period stated in the contract data:</p> <p>15.1.1 The priced document with all items properly priced, extended and cast. Priced items are deemed to include all costs, overheads and profit. The principal agent may instruct the contractor to adjust prices which are considered to be imbalanced and unreasonable and to eliminate errors and discrepancies. Such adjustments shall be affected to the approval of the principal agent and shall not change the contract sum and</p> <p>15.1.2 Such other documents and information identified in the contract data.</p> <p>15.2 The employer shall:</p> <p>15.2.1 Give possession of the site to the contractor on the date stated in the contract data and</p> <p>15.2.2 Where required in the contract data, provide an advance payment on receipt of an advance payment guarantee from the contractor, and</p> <p>15.2.3 Inform the contractor of all cash advances and the quantum of each to be provided to n/s subcontractors, and</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No. 1 Preliminaries</p>	Item		
			R	

<p>15.3 On being given possession of the site the contractor shall commence the works within the working days period stated in the contract data and, subject to 31.15-16, shall proceed continuously, industriously and with due skill and appropriate physical resources to bring the works to:</p> <p>15.3.1 No clause</p> <p>15.3.2 Practical completion [24.0], and</p> <p>15.3.3 Works completion [25.0], and</p> <p>15.3.4 Final completion [26.0]</p> <p>15.4 Where completion in sections is required in terms of the contract data the further provisions of 28.0 shall be applicable</p> <p>15.5 The contractor shall provide everything necessary for the proper execution of the works and shall carry cut and complete the works in compliance with the contract documents, using materials and workmanship of the quality and standards specified therein, provided that such quality and standards shall be to the reasonable satisfaction of the principal agent</p> <p>15.6 The contractor shall:</p> <p>15.6.1 Prepare a programme of the works together with a schedule of outstanding construction information in sufficient detail to enable the principal agent to assess the progress of the works and timeously provide the necessary contract instructions, and</p> <p>15.6.2 Coordinate the n/s subcontractor's and direct contractors' programmes with his own, and</p> <p>15.6.3 Continuously revise and modify the programme and the schedule of outstanding construction information and issue copies timeously to the principal agent</p>				
<p style="text-align: center;">Carried to Collection</p> <p>Section No. 1 Bill No. 1 Preliminaries</p>		R		

	<p>15.7 The contractor shall provide all reasonable assistance to the principal agent in the preparation of cash flow projections where required by the employer. The projections shall be based on the contractor's programme and shall be updated as and when necessary.</p> <p>15.8 The principal agent and contractor shall hold regular meetings related to the progress of the works and at such other times as may be necessary. The principal agent shall record and distribute the minutes of the meetings. At the request of the principal agent or the contractor meetings shall be held to deal with technical and n/s subcontractor' coordination matters</p> <p>15.9 The contractor shall maintain daily records of the number and categories of persons and plant employed on the works and shall provide copies thereof to the principal agent on request</p> <p><u>SUMMARY OF CATEGORIES</u></p> <p style="padding-left: 40px;">Category : Fixed R</p> <p style="padding-left: 40px;">Category : Value R</p> <p style="padding-left: 40px;">Category : Time R</p> <p style="text-align: center; margin-top: 200px;">Carried to Collection</p> <p>Section No. 1 Bill No. 1 Preliminaries</p>				
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Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

Section No. 1 Bill No. 1 Preliminaries <u>COLLECTION</u>					
Total Brought Forward from Page No.					
Section No. 1 Bill No. 1 Preliminaries					

**Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works**

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 1</u></p> <p><u>FOUNDATIONS</u></p> <p><u>The tenderer is referred to the relevant Clauses in the separate document "Model Preambles for Trades (1999 Edition)" and to the "Architectural and Functional General Details" all in accordance with drawings and specifications and must take all requirements that are described therein into account in the cost rates</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock".</p> <p>The nature of the ground is assumed to be gravel, therefore "earth", but possibly interspersed with "soft rock".</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, therefore "earth", but possibly interspersed with "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". The trial holes also indicate that the water table is at a maximum depth of approximately 1000mm.</p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>Bill No. 1</p> <p>Foundations</p>			

<p>A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured</p>			
<p><u>Transport of Earthworks:</u></p>			
<p>The haulage of all material shall, for payment purposes, be regarded as freehaul regardless of distance hauled, and shall apply to:</p>			
<p>(i) All material excavated on site and used for filling on site (ii) All material excavated on site and stockpiled on site</p>			
<p>Descriptions for carting away of surplus excavated material includes for loading onto trucks directly from the excavations or from the stockpiles, and carting away to a dump site. The Contractor is to include for all dumping fees in the rate of the relevant item.</p>			
<p>The Contractor shall engage the services of an approved independent testing laboratory for the testing of materials, and quality testing of layerworks, so as to ensure that his work conforms to the specifications. Results of these tests shall be submitted to the Engineer timeously. Tests shall be carried out by the Contractor at a rate of at least 4 tests per 1 000m² of each layer or in accordance with instructions issued by the Engineer.</p>			
<p>The tendered unit rates shall be deemed to include the cost of all control testing, and no additional claims shall be entertained in this respect.</p>			
<p>Should control testing arranged by the Contractor not meet the requirements of the Specification, the Engineer shall have the right to conduct all such other testing at the Contractor's expense.</p>			
<p>Carried to Collection</p>			
<p>Section No. 2 Bill No. 1 Foundations</p>		R	

<u>Filling</u>	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 multiple handling of material				
<u>Working Space</u>	<p>Working space for formwork to sides of all concrete, except columns, shall be measured only where the concrete face is less than 750mm from the face of the measured excavations</p> <p>Working space for formwork to sides of columns shall be measured for the width of the column face only where both:</p> <p>the top of the column base is more than 1500mm below the commencing level of the excavations and</p> <p>the column face is less than 500mm from the face of the measured excavations</p> <p>No claim shall be considered for any working space for formwork to concrete other than as above described or for working space beyond the sides of trench excavations for the building of brick or block walls</p> <p>Descriptions of excavations for working space shall be deemed to include for any additional risk of collapse so incurred and for the returning and compacting of the excavated material as described</p>				
<u>Carting away of excavated material</u>	Descriptions of carting away of excavated material shall be deemed to include for bulking and loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site				
Carried to Collection				R	
Section No. 2 Bill No. 1 Foundations					

	<p><u>Subterranean water:</u></p> <p>No information regarding subterranean water is available. The tenderer must acquaint himself of the presence and depth of subterranean water and allow thereof in his prices</p> <p><u>EXCAVATION, FILLING, ETC</u></p> <p><u>Open face excavation in earth</u></p>				
1	To reduce levels under buildings	m3	3,169		
	<u>Excavation in earth not exceeding 2m deep</u>				
2	Trenches	m3	2,905		
3	Holes	m3	1,196		
4	Lift shaft bases	m3	41		
5	Pool and sump	m3	554		
6	Tree pits	m3	40		
	<u>Excavation in earth exceeding 4m deep not exceeding 2m deep</u>				
7	Pool and sump	m3	158		
	<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 95% Mod AASHTO density</u>				
8	Exceeding 500mm and not exceeding 1500mm deep for placing and removing formwork to walls etc. 800mm away from excavated face	m3	78		
9	Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls etc. 800mm away from excavated face	m3	60		
	<u>Extra over trench and hole excavations in earth for excavations in</u>				
10	Soft rock	m3	435		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 1				
	Foundations				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

11	Hard rock	m3	218			
	<u>Extra over all excavations for spreading and levelling</u>					
12	Surplus material from excavations and/or stock piles on site with in a 200m radius as directed by the Engineer	m3	1,626			
13	Spread and level material obtained from stockpile, over site, as directed by Engineer	m3	121			
	<u>Risk of collapse of excavations</u>					
14	Sides of trench and hole excavations not exceeding 1,5m deep	m2	10,738			
15	Sides of trench and hole excavations exceeding 1,5m deep	m2	860			
	<u>Keeping excavations free of water</u>					
16	Keeping excavations free of all water other than subterranean water		Item			
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>					
17	Backfilling to trenches, holes, etc	m3	2,864			
18	Under floors, paving etc	m3	42			
	<u>Earth filling of G5 material supplied by the contractor compacted to 98% Mod. AASHTO density</u>					
19	Under floors, etc	m3	2,626			
	<u>Compaction of surfaces</u>					
20	Rip and recompact ground surface including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASTHO density	m2	13,939			
	Carried to Collection					
	Section No. 2 Bill No. 1 Foundations				R	

<u>TESTS</u>				
<u>Prescribed density tests on filling</u>				
Note : Prices for soil tests must be included in the contractor's rates for earthworks items.				
Additional soil tests to be carried out as directed by the Engineer:				
21	"Modified AASTHO Density" tests	No	260	
<u>PROTECTION AGAINST TERMITES</u>				
<u>Soil poisoning</u>				
22	Soil insecticide under floors, paving, etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	10,574	
23	Soil insecticide to bottoms of trenches, holes, etc	m2	14,767	
<u>CONCRETE</u>				
<u>UNREINFORCED CONCRETE</u>				
<u>15 MPa/19 mm concrete in</u>				
24	Surface blinding under footings and bases.	m3	184	
<u>25MPa/20mm concrete</u>				
25	Filling to cavity of brick work (elsewhere measured)	m3	326	
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>30 MPa/19mm Concrete in:</u>				
26	Strip footings	m3	645	
27	Bases	m3	252	
<u>REINFORCED CONCRETE</u>				
Carried to Collection				R
Section No. 2				
Bill No. 1				
Foundations				

	<u>30 MPa/19 mm concrete in</u>				
28	Columns	m3	37		
29	Stub columns	m3	2		
30	Surface beds	m3	16		
31	Surface beds on insulation	m3	1,325		
32	Ramps on waterproofing	m3	6		
33	Steps	m3	11		
34	Walls	m3	6		
35	Lift shaft floor and walls	m3	37		
36	Pool floor on waterproofing	m3	112		
37	Pool and sump walls	m3	44		
	<u>CONCRETE SUNDRIES</u>				
	<u>Test Blocks:</u>				
38	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	No	759		
	<u>Finishing top surfaces of concrete to an even surface with a wood float:</u>				
39	Surface beds, etc.	m2	6,827		
	<u>Finishing top surfaces of concrete smooth with a power float and curing</u>				
40	Surface beds, etc.	m2	3,746		
	<u>Finishing top surfaces of concrete to an evenly ribbed non-slip surface with a "stiff broom" finish</u>				
41	Ramps	m2	32		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 1				
	Foundations				

	<u>Insulation</u>				
42	25mm Lamdaboard laminated Polyisocyanates core board or equal and approved with mineral on one side, laminated both side, butt jointed as per manufacturer's instructions under surface beds on waterproofing	m2	9,716		
	<u>FORMWORK</u>				
	<u>ROUGH FORMWORK</u>				
	<u>Rough formwork to sides:</u>				
43	Columns	m2	545		
44	Stub columns	m2	21		
45	Walls	m2	55		
46	Lift shaft walls	m2	38		
47	Pool and sump walls	m2	350		
48	Edges, risers, ends and reveals exceeding 300 mm high or wide.	m2	94		
49	Edges, risers, ends and reveals not exceeding 300 mm high or wide circular on plan.	m	98		
	<u>Rough formwork to circular columns</u>				
50	300mm Diameter column 1300m high	No	21		
	<u>MOVEMENT JOINTS, ETC</u>				
	<u>10mm Isolation joints formed of bitumen impregnated soft board:</u>				
51	Between vertical concrete and brick surfaces not exceeding 300 mm high or wide	m	2,567		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 1				
	Foundations				

	<u>Saw cut joints</u>				
52	30 x 3mm Saw cut joints in two operations in top of concrete.	m	5,529		
	<u>REINFORCEMENT</u>				
	<u>Mild steel rod reinforcement to structural concrete work</u>				
53	8mm Diameter bars.	t	2.33		
54	10mm Diameter bars.	t	3.86		
55	12mm Diameter bars.	t	2.49		
	<u>High tensile steel rod reinforcement to structural concrete work in foundations</u>				
56	10mm Diameter bars.	t	7.44		
57	12mm Diameter bars.	t	11.16		
58	16mm Diameter bars.	t	18.56		
59	20mm Diameter bars.	t	19.26		
60	25mm Diameter bars.	t	11.16		
61	32mm Diameter bars.	t	11.16		
	<u>Fabric reinforcement with minimum 400mm wide overlaps</u>				
62	Type Ref 395 reinforcement in concrete surface beds, slabs, etc.	m2	8,419		
	<u>MASONRY</u>				
	<u>Brickwork of extra hard burnt clay bricks including grouting in joints</u>				
63	One brick walls.	m2	1,041		
64	One brick walls circular on plan	m2	54		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 1				
	Foundations				

65	270mm Cavity walls formed of two half brick skins including wire ties	m2	1,245			
66	270mm Cavity walls formed of two half brick skins including wire ties circular on plan	m2	94			
67	330mm Cavity walls formed of two half brick skins including butterfly ties	m2	1,432			
68	330mm Cavity walls formed of two half brick skins including butterfly ties circular on plan	m2	22			
69	380mm Cavity walls formed of two half brick skins including butterfly ties	m2	13			
70	440mm Cavity walls formed of two half brick skins including fishtail ties	m2	144			
<u>BRICKWORK SUNDRIES</u>						
<u>Brick reinforcement</u>						
71	150mm Wide reinforcement built in horizontally	m	12,447			
<u>FACE BRICKWORK</u>						
<u>"Corobrik Imperial" FBX face bricks or equal and approved 222 x 105 x 73mm in stretcher bond with cavity as shown on plan with well raked and smoothed joints (85mm gauge). Colour and type to Architect's approval</u>						
72	Extra over ordinary brickwork for face brickwork.	m2	1,566			
<u>WATERPROOFING</u>						
<u>One layer of 500 micron green polyethylene damp-proof membrane sealed at joints</u>						
73	Under surface beds	m2	11,312			
Carried to Collection				R		
Section No. 2 Bill No. 1 Foundations						

<p><u>Prepare and apply 2 layers "Jointex by Sondor", or equal and approved, lightweight, cross-linked, closed cell polyethylene joint former with hinged temporary blocking piece including raking out joint filler as necessary, etc. in strict accordance with the manufacturer's instructions to:</u></p>					
74	10mm Expansion joints	m	347		
<p><u>FABRIC BLANKET</u></p>					
75	"Geotextile PT110" or equal and approved geofabric blanket under and on no fine concrete layer, including stretching	m2	584		
<p style="text-align: center;">Carried to Collection</p>				R	
<p>Section No. 2 Bill No. 1 Foundations</p>					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></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 SANS 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 Engineer. (Test cubes are measured separately)</p> <p><u>Formwork</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself</p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>Bill No. 2</p> <p>Concrete Formwork and Reinforcement</p>			

	Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described				
	Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described				
	Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"				
	<u>CONCRETE</u>				
	<u>UNREINFORCED CONCRETE</u>				
	<u>25MPa/20mm concrete</u>				
1	Filling to cavity of brick work (elsewhere measured)	m3	9		
	<u>30MPa/20mm concrete</u>				
2	Filling to steel column (elsewhere measured)	m3	3		
	<u>REINFORCED CONCRETE</u>				
	<u>30MPa/20mm concrete</u>				
3	Columns	m3	113		
4	Stub columns	m3	13		
5	Slabs	m3	1,393		
6	Beams	m3	236		
7	Upstand beam	m3	84		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 2				
	Concrete Formwork and Reinforcement				

8	Ring beams	m3	58		
9	Walls	m3	53		
10	Lift shaft walls	m3	45		
11	Plinths	m3	17		
12	Ramps	m3	5		
13	Seats	m3	16		
14	Thresholds	m3	8		
15	Stairs including landings, beams and inverted beams	m3	29		
16	Steps, urinal steps, cupboard platforms, etc	m3	7		
	<u>TEST BLOCKS</u>				
	<u>Test blocks</u>				
17	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes	Sets	490.0		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing exposed surfaces of smooth formwork</u>				
18	Hack off projections, fill in and rub down concrete walls or columns as necessary and leave ready for painting	m2	1,169		
	<u>In-situ lintels</u>				
19	155mm Wide x 75mm high in-situ 25Mpa concrete with 6mm stone mix lintel including removable shutters where required	m	138		
20	155mm Wide x 160mm high in-situ 25Mpa concrete with 6mm stone mix lintel including removable shutters where required	m	56		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 2				
	Concrete Formwork and Reinforcement				

21	175mm Wide x 75mm high in-situ 25Mpa concrete with 6mm stone mix lintel including removable shutters where required	m	4		
	<u>In-situ window cills</u>				
22	185mm Wide in-situ 25Mpa concrete with 6mm stone mix window cill 49mm high on window side and sloping to 35mm thick with 40mm overhang and 10mm drip joint with 30mm wide x 14mm deep cut out to receive window frame (elsewhere) finished on top with steel float including removable shutters where required to architects details P2A-HDG 042-003	m	463		
23	185mm Wide in-situ 25Mpa concrete with 6mm stone mix window cill 49mm high on window side and sloping to 35mm thick with 40mm overhang and 10mm drip joint with 30mm wide x 14mm deep cut out to receive window frame (elsewhere) finished on top with steel float including removable shutters where required circular on plan to architects details P2A-HDG 042-003	m	40		
24	340mm Wide in-situ 25Mpa concrete with 6mm stone mix window cill 170mm high with 40mm overhang and 10mm drip joint with 30mm wide x 14mm deep cut out to receive window frame (elsewhere) finished on top with steel float including removable shutters where required	m	18		
25	420mm Wide in-situ 25Mpa concrete with 6mm stone mix window cill 170mm high on top of 440mm cavity wall finished on top with steel float including removable shutters where required	m	67		
	<u>GROOVES, ETC</u>				
	<u>Grooves, channels, mortices, sinkings, etc. in concrete</u>				
26	230 x 230 x 90mm Deep junction box in to of surface bed, slab, etc	No	16		
27	300 x 300 x 90mm Deep power outlet box in to of surface bed, slab, etc	No	80		
Carried to Collection				R	
Section No. 2					
Bill No. 2					
Concrete Formwork and Reinforcement					

	<u>NON-SHRINK GROUT</u>				
	Non-shrink grout shall be 1:2 cement and sand mixture, mixed dry until uniform in colour before adding water				
28	20mm Bedding under base plates, size 250 x 250mm wide	No	34		
	<u>Casting in of holding down bolts</u>				
29	Provide template for and embed set of four 16mm diameter x 190mm long steel holding down bolts (bolts elsewhere) into top of concrete column in exact position	No	34		
	<u>FORMWORK</u>				
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Rough formwork to sides of</u>				
30	Walls	m2	96		
31	Inner face of shaft walls	m2	307		
32	Square or rectangular columns propped up not exceeding 3,5m above bearing level.	m2	1,563		
33	Square or rectangular stub columns	m2	221		
34	Beams propped up exceeding 3,5m and not exceeding 5m above bearing level.	m2	80		
35	Edges, risers, ends and reveals exceeding 300 mm high or wide	m2	553		
36	Edges, risers, ends and reveals exceeding 300 mm high or wide circular on plan	m2	98		
37	Raking and stepped outer edge of stairs exceeding 350mm high extreme	m2	15		
38	Edges, risers, ends and reveals not exceeding 300 mm high or wide.	m	2,643		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 2				
	Concrete Formwork and Reinforcement				

39	Edges, risers, ends and reveals not exceeding 300 mm high or wide circular on plan	m	16		
	<u>Rough formwork to soffits</u>				
40	Soffits of slabs not exceeding 250mm thick propped up exceeding 1,5m and not exceeding 3,5m above bearing level	m2	252		
41	Soffits of slabs exceeding 250mm thick including horsing-up exceeding 3,5m and not exceeding 5,0m above bearing level	m2	5,278		
42	Soffits of lift shafts slab including horsing-up exceeding 6,5m and not exceeding 8m above bearing level	m2	6		
43	Soffits of lift shafts slab including horsing-up exceeding 11m and not exceeding 12,5m above bearing level	m2	7		
	<u>Rough formwork to sides and soffits of</u>				
44	Isolated beams propped up exceeding 3,5m and not exceeding 5m above bearing level	m2	1,339		
45	Isolated beams propped up exceeding 3,5m and not exceeding 5m above bearing level circular on plan	m2	32		
46	Isolated beams propped up exceeding 5m and not exceeding 6,5m above bearing level	m2	204		
47	Isolated beams propped up exceeding 5m and not exceeding 6,5m above bearing level circular on plan	m2	67		
48	Sloping and stepped outer edges of stairs 400mm high extreme	m	29		
49	Landings	m2	28		
50	Stairs with sloping soffits	m2	61		
Carried to Collection				R	
Section No. 2					
Bill No. 2					
Concrete Formwork and Reinforcement					

	<u>Rough formwork to circular columns</u>				
51	300mm Diameter column 3000mm high	No	3		
52	300mm Diameter column 3850mm high	No	14		
53	300mm Diameter column 4000mm high	No	4		
	<u>Boxing in or out rough formwork to form</u>				
54	25 x 25mm Vertical chamfer at corner of column.	m	7,565		
	<u>Rough formwork to form</u>				
55	Opening not exceeding 1m girth through 255mm slab.	No	392		
	<u>Sleeves</u>				
56	50mm Diameter PVC sleeve exceeding 250mm and not exceeding 500mm long cast into concrete	No	264		
57	150mm Diameter PVC sleeve exceeding 250mm and not exceeding 500mm long cast into concrete	No	153		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Expansion joints</u>				
58	Forming expansion joint with and including 10mm thick cross-linked, closed cell, expanded polyethylene joint filling material not exceeding 300mm wide, vertical	m	130		
	<u>REINFORCEMENT</u>				
	<u>Mild steel reinforcement</u>				
59	8mm Diameter bars	t	3.67		
60	10mm Diameter bars	t	9.19		
61	12mm Diameter bars	t	5.51		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 2				
	Concrete Formwork and Reinforcement				

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Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

[illegible]

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 3</u>			
<u>MASONARY</u>			
<u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Hollow walls, etc.</u>			
Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.			
<u>Wall ties for blockwork</u>			
Wall ties shall be polypropylene "Permaties" complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other.			
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of SABS approved clay NFX bricks in class II mortar:</u>			
1	Half brick walls.	m2	256
2	One brick walls	m2	756
3	270mm Cavity walls formed of two half brick skins including wire ties	m2	421
Carried to Collection			R
Section No. 2 Bill No. 3 Masonry			

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

4	330mm Cavity walls formed of two half brick skins including wire ties	m2	358		
	<u>Brickwork of SABS approved clay NFX bricks (14 MPa nominal compressive strength) in class II mortar in loadbearing walls etc.:</u>				
5	Mass brickwork in tapered wall circular on plan	m3	47		
6	Half brick walls	m2	1,706		
7	Half brick lining to concrete walls including wire ties	m2	209		
8	Half brick lining to concrete walls including wire ties circular on plan	m2	3		
9	Half brick wall kerb	m2	10		
10	430 x 430mm Half brick hollow column	m	19		
11	One brick walls	m2	5,255		
12	One brick walls circular on plan	m2	4		
13	270mm Brick walls	m2	10		
14	270mm Brick walls in beamfilling	m2	231		
15	270mm Brick walls in beamfilling circular on plan	m2	2		
16	385mm Brick walls	m2	5		
17	440mm Brick walls	m2	2		
18	270mm Cavity walls formed of two half brick skins including wire ties	m2	4,499		
19	270mm Cavity walls formed of two half brick skins including wire ties circular on plan	m2	90		
20	270mm Cavity walls formed of two half brick skins including wire ties (loadbearing)	m2	6		
21	330mm Cavity walls formed of two half brick skins including wire ties	m2	3,104		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 3				
	Masonry				

22	330mm Cavity walls formed of two half brick skins including wire ties circular on plan	m2	53			
23	380mm Cavity walls formed of two half brick skins including wire ties	m2	228			
24	440mm Cavity walls formed of two half brick skins including wire ties	m2	579			
25	440mm Cavity walls formed of two half brick skins including wire ties (loadbearing)	m2	33			
<u>BRICKWORK SUNDRIES</u>						
<u>Closing of cavity in brickwork</u>						
26	Splayed mortar fillet two courses high in 60mm cavity	m	1,921			
27	Splayed mortar fillet two courses high in 100mm cavity	m	958			
28	Splayed mortar fillet two courses high in 220mm cavity	m	347			
29	Rough raking cutting	m2	517			
30	Closing 60mm cavity of hollow wall vertically with brickwork half brick wide	m	1,180			
31	Closing 100mm cavity of hollow wall vertically with brickwork half brick wide.	m	979			
32	Closing 220mm cavity of hollow wall vertically with brickwork half brick wide.	m	186			
33	Closing 60mm cavity of hollow wall horizontally with two courses of brickwork	m	359			
34	Closing 100mm cavity of hollow wall horizontally with two courses of brickwork	m	208			
35	Closing 220mm cavity of hollow wall horizontally with two courses of brickwork	m	17			
Carried to Collection				R		
Section No. 2						
Bill No. 3						
Masonry						

	<u>Brick reinforcement</u>				
36	75mm Wide reinforcement built in horizontally.	m	5,864		
37	150mm Wide reinforcement built in horizontally.	m	17,855		
	<u>Prestressed concrete lintels</u>				
38	115mm Wide lintels in lengths not exceeding 3m.	m	468		
39	115mm Wide lintels in lengths exceeding 4.5m and not exceeding 6m	m	19		
	<u>FACE BRICKWORK</u>				
	<u>"Corobrik Imperial" FBX face bricks or equal and approved 222 x 105 x 73mm in stretcher bond with cavity as shown on plan with well raked and smoothed joints (85mm gauge). Colour and type to Architect's approval</u>				
40	Extra over ordinary brickwork for face brickwork	m2	4,729		
41	Extra over ordinary brickwork for face brickwork circular on plan	m2	25		
	<u>FACE BRICKWORK COPINGS, SILLS, ETC.</u>				
	<u>"Corobrik Imperial" FBX face bricks or equal and approved 222 x 105 x 73mm in stretcher bond with cavity as shown on plan with well raked and smoothed joints (85mm gauge). Colour and type to Architect's approval</u>				
	<u>Brick-on-edge header course copings, sills, etc of approved face bricks (FBS) with a PC Amount of R4,000.00 per thousand bricks delivered to site (excluding VAT) pointed with square recessed horizontal and vertical joints on all exposed faces</u>				
42	Extra over brickwork for 160mm high brick-on-end soldier course lintel pointed on face and 110mm wide soffit	m	92		
	Carried to Collection			R	
	Section No. 2 Bill No. 3 Masonry				

43	Extra over brickwork for brick-on-edge header course lintel pointed on face and 115mm soffit	m	19		
44	Extra over brickwork for brick on edge coping	m	19		
45	Extra over brickwork for coping on top of 230mm brick wall	m	23		
46	Extra over brickwork for coping on top of 270mm brick wall	m	60		
47	Extra over brickwork for coping on top of 330mm brick wall	m	31		
<u>POINTING TO FACE BRICK WALLS</u>					
<u>Fair face to brickwork in horizontal stretcher bond pointed with flush fill joints with Cemcrete mortar, prepared and finished with "Chryso Drikote Sealer" or equal and approved all to manufacturer's specifications</u>					
48	Face brick walls	m2	4,696		
<u>BUILDERS WORK IN CONNECTION WITH ELECTRICAL INSTALLATION, ETC.</u>					
49	Cut chase vertically or horizontally in concrete not exceeding 75mm wide for single conduit and make good	m	1,254		
50	Cut chase vertically or horizontally in brickwork not exceeding 100mm wide for two conduits and make good	m	769		
51	110mm Deep recess for and building in of distribution board not exceeding size 600 x 900mm and make good	No	72		
Carried to Collection				R	
Section No. 2 Bill No. 3 Masonry					

**Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works**

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 4</u></p> <p><u>WATERPROOFING</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Waterproofing</u></p> <p>Waterproofing of roofs, basements, etc shall be laid under a fifteen 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>DAMP-PROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer of 375 micron black embossed polyethylene damp-proof course</u></p>			
1	<p>In walls, cavity walls, under cills, etc.</p> <p><u>WATERPROOFING TO FLAT ROOFS</u></p> <p>The Contractor shall allow in his rates for testing the waterproofing for water tightness by ponding the waterproofed surfaces for a period of at least 48 hours before application of a protective layer.</p>	m2	2,100	
	<p style="text-align: right;">Carried to Collection</p>		R	
	<p>Section No. 2</p> <p>Bill No. 4</p> <p>Waterproofing</p>			

	<u>Apply six coats Sikapastic-560 GCC cold-applied, one-component waterborne liquid applied waterproofing membrane, highly elastic and UV resistant or equal and approved with 75mm side laps and 100mm end laps fully bonded, inclusive of additional membrane dressing around fullbores, pipes, etc including preparation, primer, base coat with embedded Sika Reemat Premiun or equal and approved, to receive sealer (elsewhere), in strict accordance to manufacturer's specification and guaranteed to remain watertight for a period of fifteen years</u>				
2	On flat roofs	m2	3,061		
3	On tops and sides of inverted beams	m2	423		
4	Collar around pipe not exceeding 200mm internal diameter	No	30		
	<u>SEALING COAT TO PARAPETS, BEAMS, ETC</u>				
	<u>One coat SikaTop Seal-107ZA two part polymer modified cementitious waterproof slurry protective coating or equal and approved comprising of a liquid polymer and cement-based mix incorporating special admixture all in strict accordance to manufacturer's specification on</u>				
5	On plastered tops and sides of beams, parapets, etc. not exceeding 300mm wide	m	892		
6	On plastered tops and sides of beams, parapets, etc. exceeding 300mm wide	m2	135		
	<u>JOINT SEALANTS, ETC</u>				
	<u>Grey polysulphide sealant, including backing cord, bond breaker, primer, etc</u>				
7	Clean out 3mm thick saw cut joint, apply approved primer, insert backing cord and fill with type 2 gungrade polysulphide base joint sealing compound	m	5,086		
	Carried to Collection			R	
	Section No. 2 Bill No. 4 Waterproofing				

8	10 x 10mm In joints in vertical between concrete columns and brickwork, including raking out joint filler as necessary	m	130		
	<u>"ABE Dow Corning 888", or equal approved, silicone sealing compound including raking out joint filler as necessary and backing cord, bond breaker, primer, etc.</u>				
9	Rake out 12mm thick expansion joint filler to a depth of 10mm, apply approved primer, insert packing strip and fill with type 2 gungrade polysulphide base joint sealing compound	m	2,821		
Carried to Collection					
					R
Section No. 2 Bill No. 4 Waterproofing					

**Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works**

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 5</u></p> <p><u>ROOF COVERING</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>MATERIAL AND FINISH FOR KLIP-TITE ROOF SHEETING AND FLASHINGS</u></p> <p>Galvanised steel Chromadek Ultim Z275 complying with ISQ 550 with Chromadek colour coated finish to two sides (Non standard colours to be approved by Architects). Finish with Chromadek to both sides on covered walkways or when exposed to bottom.</p> <p><u>FIXING KLIP-TITE</u></p> <p>The Klip-Tite profile Chormadek Ultim Z275 sheets shall be fixed to every purlin by means of patented KL700 clips with spurs to securely hold the sheets in position and lock-in sidelap and both centre ribs. Galvanised steel KL700 clips shall be fixed to steel intermediate purlins at maximum 2500mm centres and eaves and ridge purlins at maximum 2100mm centres with 10No. 16x16mm long self drilling wafer head PH2 screws, No.3 drill point fasteners or fixed to timber intermediate purlins at maximum 2500mm centres and eaves and ridge purlins at maximum 2100mm centres with 10No. 11x45mm long self drilling wafer head PH2 screws, type 17 drill point fasteners all in accordance with manufacturer's specifications.</p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>Bill No. 5</p> <p>Roof Covering</p>			

<u>GUARANTEES</u>					
The Contractor is to submit a certificate signed by the merchant, stating that the galvanised roof covering supplied complies with the required thickness specified.					
A written and approved ten year guarantee of site workmanship and water-tightness shall be issued after final inspection and approval of the roofs by the manufacturer of the sheeting.					
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>					
<u>0.58mm Thick Klip-Tite galvanised steel roof sheeting profile Chromadek Ultim Z275 spelter complying with ISQ550 or equal and approved and accessories, 700mm cover and fixed to all steel or timber purlins with KL700 plus clips and class 3 fasteners, al fixed in strict accordance with manufacturer's instructions</u>					
1	Sheeting laid to roof not exceeding 10 degrees in single lengths (measured nett)	m2	9,938		
2	Extra over for raking cutting	m	259		
3	Global Roofing Solution KT-PV Clamp™ system or equal and approved clamp fixed to Klip-Tite™ profile roof sheeting using fixing bolts all in accordance with manufacturers specifications	No	669		
<u>0,8mm Thick Chromadek Ultim Z275 spelter complying with ISQ550 galvanised steel or equal and approved flashings, etc. complete with metal and poly closers fixed in strict accordance to manufacturer's in specifications</u>					
4	325mm Girth fascia flashing bend to shape to suit roof covering	m	501		
5	603mm Girth apex flashing bend to shape to suit roof covering	m	508		
6	699mm Girth fascia flashing bend to shape to suit roof covering	m	98		
Carried to Collection				R	
Section No. 2 Bill No. 5 Roof Covering					

7	699mm Girth fascia flashing bend to shape to suit roof covering circular on plan	m	17		
8	603mm Girth barge flashing to suit roof profile including metal closer and poly closer	m	517		
9	733mm Girth barge flashing to suit roof profile including metal closer and poly closer	m	62		
10	972mm Girth apex flashing bend to shape to suit roof covering including metal closer and poly closer	m	64		
11	972mm Girth apex flashing bend to shape to suit roof covering circular on plan including metal closer and poly closer	m	32		
<u>ROOF INSULATION</u>					
<u>Sisalation FR 430(Rval-1.3) fire retardant grade reinforced aluminium foil insulation double sided, durable, reflective foil laminate incorporating a fire retardant between various substrates, bonded together with low density polythene, tested for conformance with SANS 1381-4:2009, with a Class 1 fire rating in accordance with SANS 10177-3:2005 and ASTM E84 and BS 476 part 5.6 and 7 with purlins spaced at greater than 1500mm centres with top and bottom edges folded around flat bar and fixed ridge and eaves purlins all manufacturer specifications and recommendations, and drawn tautly over and fixed to intermediate purlins with double sided tape or contact adhesive and supported between purlins by 1.6mm diameter double galvanised straining wires starting at 75mm centre then 275mm, 275mm, 275mm and 75mm centres across each roll width securely fixed across top of purlins with Sisalation lapped 150mm on both sides of each 150mm width roll, all in accordance with the manufacturer's and/or supplier's specification and recommendations</u>					
12	Roof insulation fixed over steel purlins with support to all exposed edges by means screwed or pop riveted to roof members	m2	9,938		
Carried to Collection				R	
Section No. 2 Bill No. 5 Roof Covering					

	<p><u>90mm Thick Lamdaboard high density 35kg/m2 closed cell Polyisocyanurates insulation formed of 1220 x 90mm thick sheet colour white with Kraft facing, fixed concurrent with roof covering under purlins with "H" bar joiners screw fixed at 1200mm centres with 5mm gap between boards butt joined under purlin, all in accordance with manufacturer's specifications</u></p>				
13	<p>Roof insulation fixed over steel purlins with support to all exposed edges by means screwed or pop riveted to roof members</p>	m2	9,938		
	<p><u>FALL PROTECTION</u></p> <p><u>SecuRope lifeline by Gravity Access (Pty) Ltd or equal and approved consisting of 8mm stainless steel wire rope complete with gliders, energy absorbers, line tensioners, turnbuckle, and curve guide fixed to supporting structure by anchors placed on intervals of 2m to 12m along the cable installed strictly to manufacturers specification and details to</u></p>				
14	Concrete roof length 9,77m long	No	1		
15	Concrete roof length 14,45m long	No	1		
16	Concrete roof length 14,46m long	No	1		
17	Concrete roof length 16,96m long	No	1		
18	Concrete roof length 17,46m long	No	1		
19	Concrete roof length 20,71m long	No	1		
20	Concrete roof length 29,16m long	No	1		
21	Concrete roof length 29,68m long	No	1		
22	Concrete roof length 34,99m long	No	1		
23	Concrete roof length 40,49m long	No	1		
24	Concrete roof length 48,41m long	No	1		
	Carried to Collection			R	
	<p>Section No. 2 Bill No. 5 Roof Covering</p>				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

25	Concrete roof length 62,14m long	No	2			
26	Klip-Tite galvanised roof sheeting roof length 42,06m long	No	1			
27	Klip-Tite galvanised roof sheeting roof length 52,57m long	No	1			
<p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Bill No. 5 Roof Covering</p>						

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 6</u>			
	<u>CARPENTRY</u>			
	<u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
	<u>DOORS, ETC</u>			
	<u>Doors by Swartland (022 433 8000) or equal and approved</u>			
	<u>Solid core flush doors</u>			
	<u>40mm Thick solid heavy duty door concealed edge strips with solid core and finished with hardwood laminate on both sides and hung on steel frames (frames elsewhere)</u>			
1	Single leaf door overall size 813 x 1738mm high Dr_EP	No 1		
2	Single leaf door overall size 813 x 2032mm Dr_BZ	No 1		
3	Single leaf door overall size 813 x 2032mm high Dr_V	No 101		
4	Single leaf door size overall 965 x 2032mm high Dr_A	No 14		
5	Single leaf door size overall 965 x 2032mm high Dr_Z	No 10		
6	Single leaf door size overall 965 x 2125mm high HSW007 & HSW008	No 24		
7	Single leaf door size overall 1103 x 2380mm high HSW003	No 2		
8	Single leaf door size overall 1120 x 2380mm high HSW001 & HSW002	No 27		
	Carried to Collection		R	
	Section No. 2 Bill No. 6 Carpentry			

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

9	Single leaf door size overall 1120 x 2380mm high HSW004	No	2		
10	Single leaf door size overall 1120 x 2510mm high HSW005 & HSW006	No	4		
11	Single leaf door overall size 1350 x 2032mm high Dr_B	No	4		
12	Double leaf door with rounded meeting stiles overall size 986 x 1738mm high Dr_D	No	34		
13	Double leaf door with rounded meeting stiles overall size 1350 x 2065mm high Dr_CJ	No	1		
14	Double leaf door with rounded meeting stiles overall size 1510 x 2032mm high Dr_DB	No	16		
15	Double leaf door with rounded meeting stiles overall size 1486 x 2032mm high Dr_EJ	No	1		
16	Double leaf door with unequal leafs, each leaf size overall 813 x 2032mm high and 482 x 2032mm high, with rounded meeting stiles Dr_CA	No	16		
17	Double leaf door with unequal leafs, each leaf size overall 900 x 2032mm high and 450 x 2032mm high, with rounded meeting stiles Dr_AA	No	3		
<u>Extra over solid heavy duty doors for</u>					
18	3 x 3mm Slit to edge of top rail and stile for wiring (wiring elsewhere) in solid laminated flush door (doors elsewhere)	m	30		
19	Viewing panel size 250 x 630mm high with purpose made aluminium sub-frame for view panel (Sheerline NVW 01/02) or equal and approved, glazed with and including 6,38mm thick clear intruder proof safety glass, standard glazing beads, PVC gaskets and sealants in solid flush door, all to AAMSA standards (doors elsewhere)	No	67		
Carried to Collection				R	
Section No. 2					
Bill No. 6					
Carpentry					

20	Opening size 400 x 400mm high for ventilation grilles (grilles elsewhere) in solid laminated flush door (doors elsewhere)	No	66	
<p><u>Fire doors by Melican Mis Systems (031 563 7307)</u></p> <p><u>Fire doors</u></p>				
21	Pelican MIS Systems pyropanel 48mm Single leaf fire door size 1000 x 2032mm high or equal and approved in strict accordance with SABS 1253 carrying the relevant SABS mark for fire rating with 3,6mm treated commercial ply on both sides Dr_X	No	10	
<p><u>OPERABLE PARTITIONING</u></p> <p><u>Sound Operable Partition Panels by HUF COR (031 573 7380)</u></p>				
22	Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 44/48) to suit opening size 16366mm wide x 3060mm high with panels faced with high pressure laminates, including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 44 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF38-001	No	2	
<p>Carried to Collection</p> <p>Section No. 2 Bill No. 6 Carpentry</p>				R

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

23	Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 44/48) to suit opening size 14683mm wide x 3060mm high with panels faced with high pressure laminates, including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 44 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF38-002	No	1		
24	Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 44/48) to suit opening size 8089mm wide x 2720mm high with panels faced with high pressure laminates, including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 44 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF38-003	No	1		
25	Extra over to Ifuba Hufcor 5000 Series Operable Partition for single Pass Door size 818mm wide x 2030mm high	No	3		
Carried to Collection					R
Section No. 2 Bill No. 6 Carpentry					

26	Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 40/44/48) to suit opening size 4278mm wide x 2720mm high with panels faced with medium density board (MDF), including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 48 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF40-004	No	1		
27	Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 40/44/48) to suit opening size 6539mm wide x 2720mm high with panels faced with medium density board (MDF), including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 48 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF40-005	No	1		
28	Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 40/44/48) to suit opening size 3632mm wide x 3060mm high with panels faced with medium density board (MDF), including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 48 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF40-002	No	2		
Carried to Collection				R	
Section No. 2					
Bill No. 6					
Carpentry					

29	Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 40/44/48) to suit opening size 5411mm wide x 3060mm high with panels faced with medium density board (MDF), including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 48 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF40-001	No	1		
30	Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 40/44/48) to suit opening size 5421mm wide x 3060mm high with panels faced with medium density board (MDF), including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 48 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF40-003	No	1		
31	Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 40/44/48) to suit opening size 4596mm wide x 3400mm high with panels faced with medium density board (MDF), including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 48 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF40-006	No	1		
Carried to Collection				R	
Section No. 2 Bill No. 6 Carpentry					

32	<p>Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 40/44/48) to suit opening size 4676mm wide x 3400mm high with panels faced with medium density board (MDF), including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 48 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF40-007</p> <p style="text-align: right;">No</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Bill No. 6 Carpentry</p>	2			
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Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

Section No. 2 Bill No. 6 Carpentry <u>COLLECTION</u> Total Brought Forward from Page No.				
<p style="text-align: center;">Carried Forward to Summary of Section No. 2</p> Section No. 2 Bill No. 6 Carpentry				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 7</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
	<u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
	<u>SUSPENDED CEILINGS</u>			
	<u>Note:</u>			
	Electrical light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)			
	<u>Pelican Systems Jumbo Fibre Cement ceiling system or equal and approved with 6mm thick fibre cement board fixed at right angles to 35mm Jumbo galvanised steel main and cross tees at 400mm centres with 25mm drywall screws spaced at 150mm centres. All joints to be covered with 6mm Jumbo Jointing Strips and prepared for decorations all in accordance with manufacturer's instructions</u>			
1	Ceilings suspended not exceeding 1m below concrete slabs	m2	35	
2	Ceilings suspended not exceeding 1m below steel trusses	m2	149	
3	Ceilings in eaves closure fixed to steel structure	m2	2,055	
4	Circular cutting	m	40	
	Carried to Collection		R	
	Section No. 2			
	Bill No. 7			
	Ceilings, Partitions and Access Flooring			

<u>Hardwood Cornice</u>					
5	46 x 24mm Hardwood cornice, complete with two 10 x 10mm shadow-line at side wall and top with splayed corner at internal face fixed to walls, stop, fill, sand down and prepare wood surface for decorations	m	2,689		
6	46 x 24mm Hardwood cornice, complete with two 10 x 10mm shadow-line at side wall and top with splayed corner at internal face circular on plan fixed to walls, stop, fill, sand down and prepare wood surface for decorations	m	58		
<u>Aluminium Cornice</u>					
7	20 x 20mm Angle section cornice to eaves closer ceilings	m	2,325		
8	20 x 20mm Angle section cornice to eaves closer ceilings circular on plan	m	79		
<u>Flush plastered ceilings formed of 9mm JUMBO Plasterboard ceiling boards or equal and approved fixed to JUMBO Steel Branderling installed at maximum 400mm centres, fix plasterboard using drywall screws at maximum 150mm centres, all joints to be staggered. Apply Jumbo Fibatape to all joints, cover with 2 layers of Jumbo jointing plaster and skim ceilings with Jumbo skimming plaster for decoration all in accordance with manufacturer's instructions</u>					
9	Ceilings suspended not exceeding 1m below concrete slabs	m2	526		
10	Ceilings suspended not exceeding 1m below steel trusses	m2	1,181		
11	Ceilings suspended exceeding 1m and not exceeding 2m below steel trusses	m2	414		
12	Raking ceilings suspended not exceeding 1m below steel trusses	m2	43		
Carried to Collection				R	
Section No. 2 Bill No. 7 Ceilings, Partitions and Access Flooring					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

13	Vertical bulkhead not exceeding 1m below concrete slab including all additional supports that may be required	m2	154		
14	Vertical bulkhead not exceeding 1m below steel trusses including all additional supports that may be required	m2	696		
15	Vertical bulkhead not exceeding 1m below steel trusses circular on plan including all additional supports that may be required	m2	23		
16	Circular cutting	m	95		
17	Extra over for Pelican System or equal and approved ceiling access panel comprising 600 x 600mm white epoxy coated aluminium T-frame with 580 x 580mm white epoxy coated steel bottom hinged pan fitted flush to flush plastered steel T-suspension ceiling, pop riveted through stalk of T-frame into 25 x 25mm steel galvanised angle steel with and including cam locks	No	27		
<u>Powdercoated shadowline cornices</u>					
18	45 x 45mm Pelican PS4 Shadowline pre-painted white Wall Trim cornice or equal and approved secured to plastered walls at 450mm centres with anchors including mitres, etc. sealed with silicone sealant	m	3,461		
19	45 x 45mm Pelican PS4 Shadowline pre-painted white Wall Trim cornice or equal and approved circular on plan secured to plastered walls at 450mm centres with anchors including mitres, etc. sealed with silicone sealant	m	95		
<u>Extra over plasteredboard ceilings for cut outs and providing additional supports</u>					
20	Extra over ceiling for opening for 500 x 500mm air-conditioning diffuser	No	682		
21	600 x 1200mm opening	No	1,260		
22	600 x 600mm opening	No	280		
Carried to Collection				R	
Section No. 2 Bill No. 7 Ceilings, Partitions and Access Flooring					

	<p><u>Flush plastered ceilings formed of 12mm JUMBO Moisture Resistant tapered edge plasterboard ceiling or equal and approved fixed to JUMBO galvanised steel branderling installed at maximum 400mm centres, fix plasterboard using drywall screws at maximum 150mm centres. Apply Jumbo Fibatope to all joints, cover with 2 layers of Jumbo jointing plaster and skim ceilings with Jumbo skimming plaster for decoration all in accordance with manufacturer's instructions</u></p>				
23	<p>Ceilings suspended not exceeding 1m below steel trusses</p>	m2	116		
	<p><u>Pelican Econotile Gypsum ceiling tiles size 1200x600x12mm with insulation, White vinyl face finish and aluminium foil backing or equal and approved laid onto Pelican Econogrid pre-painted white exposed tee grids or equal and approved including fire safety punch outs. Main tees suspended by means of 19x0.5mm GMS straps or 2.5mm wire hangers at 1200mm centres all in accordance with the manufacturer's instructions</u></p>				
24	<p>Ceilings suspended not exceeding 1m below concrete slabs</p>	m2	130		
	<p><u>Extra over gypsum ceilings for cut outs including additional supports</u></p>				
25	<p>Extra over ceiling for opening for 600 x 600mm air-conditioning diffuser</p>	No	150		
	<p><u>Powdercoated shadowline cornices</u></p>				
26	<p>25mm Econo Shadowline Trim CGDZ1S36 cornice or equal and approved secured to plastered wall and ceiling boarding including mitres, etc. sealed with silicone sealant</p>	m	161		
Carried to Collection					R
<p>Section No. 2 Bill No. 7 Ceilings, Partitions and Access Flooring</p>					

	<u>Pelican Econotile Gypsum ceiling tiles size 1200x600x12mm without insulation, White vinyl face finish and aluminium foil backing or equal and approved laid onto Pelican Econogrid pre-painted white exposed tee grids or equal and approved including fire safety punch outs. Main tees suspended by means of 19x0.5mm GMS straps or 2.5mm wire hangers at 1200mm centres all in accordance with the manufacturer's instructions</u>				
27	Ceilings suspended not exceeding 1m below concrete slabs	m2	180		
	<u>Powdercoated shadowline cornices</u>				
28	25mm Econo Shadowline Trim CGDZ1S36 cornice or equal and approved secured to plastered wall and ceiling boarding including mitres, etc. sealed with silicone sealant	m	240		
	<u>Pelican AMF Thernofon ceiling tiles size 1200 x 600 x 15mm with square edge or equal and approved laid onto Pelican Econogrid pre-painted white exposed tee grids or equal and approved including fire safety punch outs. Main tees suspended by means of 19 x 0.5mm GMS straps or 2.5mm wire hangers at 1200mm centres all in accordance with the manufacturer's instructions</u>				
29	Ceilings suspended not exceeding 1m below concrete slabs	m2	584		
30	Ceilings suspended not exceeding 1m below steel trusses	m2	1,610		
	<u>Powdercoated shadowline cornices</u>				
31	25mm Econo Shadowline Trim CGDZ1S36 cornice or equal and approved secured to plastered wall and ceiling boarding including mitres, etc. sealed with silicone sealant	m	1,180		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 7				
	Ceilings, Partitions and Access Flooring				

	<u>Pelican Econotherm insulated calcium silicate ceiling tiles size 1200x600x31mm with White vinyl face finish and aluminium foil backing with 55/135mm cavity bonded to back of tile or equal and approved laid onto Pelican Econogrid pre-painted white exposed tee grids or equal and approved including fire safety punch outs. Main tees suspended by means of 19x0.5mm GMS straps or 2.5mm wire hangers at 1200mm centres all in accordance with the manufacturer's instructions</u>				
32	Ceilings suspended not exceeding 1m below concrete slabs	m ²	1,548		
33	Ceilings suspended not exceeding 1m below steel trusses	m ²	807		
34	Circular cutting	m	5		
	<u>Powdercoated shadowline cornices</u>				
35	25mm Econo Shadowline Trim CGDZ1S36 cornice or equal and approved secured to plastered wall and ceiling boarding including mitres, etc. sealed with silicone sealant	m	2,858		
36	25mm Econo Shadowline Trim CGDZ1S36 cornice or equal and approved circular on plan secured to plastered wall and ceiling boarding including mitres, etc.	m	5		
	<u>Extra over Pelican Econotherm ceilings for cut outs including additional supports</u>				
37	Extra over ceiling for opening for 600 x 600mm air-conditioning diffuser	No	150		
	<u>METAL CEILINGS</u>				
	Carried to Collection			R	
	Section No. 2 Bill No. 7 Ceilings, Partitions and Access Flooring				

	<u>1mm Thick galvanised troughed interlocking Bond-lok sheet metal ceiling system with chromadek finish on one side by Global Roofing Solutions (011 898 2900) or equal and approved including all necessary shear studs, end closers, screws, flashings, etc. installed in strict accordance with the manufacturer's instructions:</u>				
38	Fixed to underside of steel trusses	m2	579		
39	Extra over for leaving or forming opening not exceeding 300mm diameter	No	45		
	<u>ACOUSTIC CEILING PANELS</u>				
	<u>Solid timber slatted acoustic ceiling panels by Live Acoustics (031 767 0006) or equal and approved resistant to moisture and warping, in 100mm thickness with maximum dimension of 2400mm x 1200mm with and including light weight structure suspended below steel structure installed complete to manufactures specifications</u>				
40	Timber slatted acoustic ceiling panels	m2	316		
41	Circular cutting	m	86		
	<u>INSULATION</u>				
42	50mm Thick Isover Aerolight non-combustible light weight fibreglass glasswool thermal ceiling insulation (12kg/m3 nominal density) or equal and approved closely fitted and laid on top of ceiling between metal suspension system	m2	3,410		
43	40mm Thick Lambdaboard high density closed cell polyisocyanurate insulation or equal and approved with high density of 34 kg/m³, formed of 1220 x 40mm thick sheets colour white with Kraft facing fixed to underside of slab all in accordance with manufacturer's specifications	m2	1,179		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 7				
	Ceilings, Partitions and Access Flooring				

44	40mm Thick Lambdaboard high density closed cell polyisocyanurate insulation or equal and approved with high density of 34 kg/m³, formed of 1220 x 40mm thick sheets colour white with Kraft facing fixed concurrent with roof covering with roof covering under purlins with H bar joiner screws fixed at 1200mm centres with 5mm gaps between boards butt jointed under purlins all in accordance with manufacturer's specifications	m2	19		
45	Lambdaboard® laminated polyisocyanurate core board or equal and approved with a minimum core density of 34 kg/m³, a minimum thickness of 50mm, with mineral natural facing, fixed to tee suspension system including galvanised main tees, cross tees, hold down clips, wedges, etc., all suspended with galvanized hangers as required at not exceeding 1200mm centres and strutted using 20 x 20mm angles at 3m centres and prepared for decoration all in accordance with manufacturer's specifications	m2	1,431		
46	Cavity Batt bonded Pelican system suspended ceiling tile or equal and approved with thickness of 100mm to achieve a r-value of 2.50 and meet SANS10400-XA-2011 standard installed to manufactures specification	m2	2,013		
<u>TOILET PARTITIONS</u>					
BLOCK A					
Carried to Collection					
Section No. 2 Bill No. 7 Ceilings, Partitions and Access Flooring				R	

[illegible]

	<p><u>Cubicle Solutions shower cubicle comprising of 12mm thick Cast Acrylic Perspex (colour: Frosted White) for ends and Doors in Cube-Exclusive Overlap (code: CSCAPCEO), with overhead brace and hanging clamp (code: CS13HNGBRKT), floor anchored with adjustable supporting feet (code: CS13FT150) fixed to front mid and end panels, and bracketed to walls and pilasters using stainless steel brackets (code: CS3X10HLCRNBKT). All fixings and ironmongery in 304 and 316 grade stainless steel as specified. Ironmongery to include hat and coat hook (code: CSH&CHK) with buffer stopper, indicator bolt (code: CS12INDBLT) and rise and fall butt auto open hinge (code: CSHNGCHPL). All installed in strict accordance with the manufacturer's instructions:</u></p>				
53	End size 100mm wide x 1830mm high	No	16		
54	Door size 850mm wide x 1780mm high	No	8		
	<p><u>Cubicle Solutions shower cubicle comprising of 12mm Compact High-Pressure Laminate (CHPL), (Colour: to be confirmed), in Cube-Exclusive Overlap (code: CSCHPLCEO), with overhead brace and hanging clamp (code: CS13HNGBRKT), floor anchored with adjustable supporting feet (code: CS13FT150) fixed to front mid and end panels, and bracketed to walls and pilasters using stainless steel brackets (code: CS3X10HLCRNBKT). All fixings and ironmongery in 304 and 316 grade stainless steel as specified. Ironmongery to include hat and coat hook (code: CSH&CHK) with buffer stopper, indicator bolt (code: CS12INDBLT) and rise and fall butt auto open hinge (code: CSHNGCHPL). All installed in strict accordance with the manufacturer's instructions:</u></p>				
55	Partition size 1800 mm wide x 1830 mm high	No	8		
56	Mid size 250 mm wide x 1830mm high	No	8		
57	End size 125mm wide x 1830mm high	No	4		
58	Door size 900mm wide x 1780mm high	No	8		
	Carried to Collection				
	Section No. 2				
	Bill No. 7				
	Ceilings, Partitions and Access Flooring				

	<p><u>Cubicle Solutions Cube Exclusive toilet cubicle comprising of 12mm thick Compact High-Pressure Laminate (CHPL), (Colour: to be confirmed), in Cube-Exclusive Overlap (code: CSCHPLCEO), with overhead brace and hanging clamp (code: CS13HNGBRKT), floor anchored with adjustable supporting feet (code: CS13FT150) fixed to front mid and end panels, and bracketed to walls and pilasters using stainless steel brackets (code: CS3X10HLCRNBKT). All fixings and ironmongery in 304 and 316 grade stainless steel as specified. Ironmongery to include hat and coat hook (code: CSH&CHK) with buffer stopper, indicator bolt (code: CS12INDBLT) and rise and fall butt auto open hinge (code: CSHNGCHPL). All installed in strict accordance with the manufacturer's instructions:</u></p>				
59	Partition size 1800 mm wide x 1830 mm high	No	8		
60	Mid size 250 mm wide x 1830mm high	No	7		
61	End size 125mm wide x 1830mm high	No	4		
62	Door size 900mm wide x 1780mm high	No	9		
	<p><u>Cubicle Solutions (Code.CSUSWE)" urinal screen formed of 12mm thick compact high pressure laminate (CHPL), fixed to wall using aluminium extrusion (code: CS6CMEMF) in strict accordance with the manufacturer's instructions:</u></p>				
63	Urinal screen size 450mm wide x 750mm high	No	19		
Carried to Collection					
<p>Section No. 2 Bill No. 7 Ceilings, Partitions and Access Flooring</p>					R

	<p><u>Cubicle Solutions 12mm thick Cast Acrylic Perspex for partition, in Cube-Exclusive Overlap (code: CSCAPCEO), with overhead brace and hanging clamp (code: CS13HNGBRKT), floor anchored with adjustable supporting feet (code: CS13FT150) bracketed to walls and pilasters using stainless steel brackets (code: CS3X10HLCRNBKT). All fixings and ironmongery in 304 and 316 grade stainless steel as specified. Ironmongery to include hat and coat hook (code: CSH&CHK) with buffer stopper, indicator bolt (code: CS12INDBLT) and rise and fall butt auto open hinge (code: CSHNGCHPL). All installed in strict accordance with the manufacturer's instructions:</u></p>				
64	<p>Partition size 1800 mm wide x 1830 mm high</p> <p>BLOCK C</p>	No	1		
	<p><u>Cubicle Solutions Cube Exclusive toilet cubicle comprising of 12mm Compact Density Fibre Board (CDFB), (Colour: Standard stock held range), in Cube-Exclusive Overlap (code: CSCDFBCEO). This is a modular, frameless system with overhead brace and hanging clamp (code: CS13HNGBRKT), floor anchored with adjustable supporting feet (code: CS13FT150) fixed to front mid and end panels, and bracketed to walls and pilasters using stainless steel brackets (code: CS3X10HLCRNBKT). All fixings and ironmongery in 304 and 316 grade stainless steel as specified. Ironmongery to include hat and coat hook (code: CSH&CHK) with buffer stopper, indicator bolt (code: CS12INDBLT) and rise and fall butt auto open hinge (code: CSHNGCDFB). All installed in strict accordance with the manufacturer's instructions:</u></p>				
65	<p>End size 125mm wide x 1830mm high</p>	No	2		
66	<p>End size 1165mm wide x 1830mm high</p>	No	1		
67	<p>End size 2610mm wide x 1830mm high</p>	No	1		
68	<p>Door size 900mm wide x 1780mm high</p> <p>BLOCK E</p>	No	2		
	<p>Carried to Collection</p>			R	
	<p>Section No. 2 Bill No. 7 Ceilings, Partitions and Access Flooring</p>				

	<p><u>Cubicle Solutions Cube Exclusive toilet cubicle comprising of 12mm Compact Density Fibre Board (CDFB), (Colour: Standard Stock held range), in Cube-Exclusive Overlap (code: CSCDFBCEO). This is a modular, frameless system with overhead brace and hanging clamp (code: CS13HNGBRKT), floor anchored with adjustable supporting feet (code: CS13FT150) fixed to front mid and end panels, and bracketed to walls and pilasters using stainless steel brackets (code: CS3X10HLCRNBKT). All fixings and ironmongery in 304 and 316 grade stainless steel as specified. Ironmongery to include hat and coat hook (code: CSH&CHK) with buffer stopper, indicator bolt (code: CS12INDBLT) and rise and fall butt auto open hinge (code: CSHNGCDFB). All installed in strict accordance with the manufacturer's instructions:</u></p>				
69	Partition size 1800 mm wide x 1830 mm high	No	20		
70	Mid size 250 mm wide x 1830mm high	No	20		
71	End size 125mm wide x 1830mm high	No	12		
72	Door size 740mm wide x 1780mm high	No	26		
	BLOCK F				
	<p><u>Cubicle Solutions Cube Exclusive toilet cubicle comprising of 12mm thick Compact High-Pressure Laminate (CHPL), (Colour: to be confirmed), in Cube-Exclusive Overlap (code: CSCHPLCEO), with overhead brace and hanging clamp (code: CS13HNGBRKT), floor anchored with adjustable supporting feet (code: CS13FT150) fixed to front mid and end panels, and bracketed to walls and pilasters using stainless steel brackets (code: CS3X10HLCRNBKT). All fixings and ironmongery in 304 and 316 grade stainless steel as specified. Ironmongery to include hat and coat hook (code: CSH&CHK) with buffer stopper, indicator bolt (code: CS12INDBLT) and rise and fall butt auto open hinge (code: CSHNGCHPL). All installed in strict accordance with the manufacturer's instructions:</u></p>				
73	Partition size 1100mm wide x 1830mm high	No	2		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 7				
	Ceilings, Partitions and Access Flooring				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

74	Partition size 1800mm wide x 1830mm high	No	2		
75	Mid size 250 mm wide x 1830mm high	No	1		
76	End size 100mm wide x 1830mm high	No	1		
77	End size 125mm wide x 1830mm high	No	5		
78	End size 230mm wide x 1830mm high	No	1		
79	End size 1100mm wide x 1830mm high	No	2		
80	End size 1270mm wide x 1830mm high	No	1		
81	Door size 740mm wide x 1780mm high	No	6		
	BLOCK H				
	<u>Cubicle Solutions Cube Exclusive toilet and shower cubicle comprising of 12mm thick Compact High-Pressure Laminate (CHPL), (Colour: to be confirmed), in Cube-Exclusive Overlap (code: CSCHPLCEO), with overhead brace and hanging clamp (code: CS13HNGBRKT), floor anchored with adjustable supporting feet (code: CS13FT150) fixed to front mid and end panels, and bracketed to walls and pilasters using stainless steel brackets (code: CS3X10HLCRNBKT). All fixings and ironmongery in 304 and 316 grade stainless steel as specified. Ironmongery to include hat and coat hook (code: CSH&CHK) with buffer stopper, indicator bolt (code: CS12INDBLT) and rise and fall butt auto open hinge (code: CSHNGCHPL). All installed in strict accordance with the manufacturer's instructions:</u>				
82	Partition size 1800mm wide x 1830mm high	No	3		
83	Partition size 1800mm wide x 1945mm high	No	4		
84	Mid size 250 mm wide x 1830mm high	No	2		
85	Mid size 250mm wide x 1945mm high	No	4		
86	End size 125mm wide x 1830mm high	No	2		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 7				
	Ceilings, Partitions and Access Flooring				

87	End size 125mm wide x 1945mm high	No	6	
88	Door size 740mm wide x 1780mm high	No	4	
89	Door size 850mm wide x 1880mm high	No	6	
<p><u>Cubicle Solutions Cube Exclusive toilet cubicle comprising of 12mm Compact Density Fibre Board (CDFB), (Colour: Standard Stock held range), in Cube-Exclusive Overlap (code: CSCDFBCEO). This is a modular, frameless system with overhead brace and hanging clamp (code: CS13HNGBRKT), floor anchored with adjustable supporting feet (code: CS13FT150) fixed to front mid and end panels, and bracketed to walls and pilasters using stainless steel brackets (code: CS3X10HLCRNBKT). All fixings and ironmongery in 304 and 316 grade stainless steel as specified. Ironmongery to include hat and coat hook (code: CSH&CHK) with buffer stopper, indicator bolt (code: CS12INDBLT) and rise and fall butt auto open hinge (code: CSHNGCDFB). All installed in strict accordance with the manufacturer's instructions:</u></p>				
90	Partition size 1800mm wide x 1830mm high	No	7	
91	Mid size 250 mm wide x 1830mm high	No	6	
92	End size 125mm wide x 1830mm high	No	4	
93	Door size 740mm wide x 1780mm high	No	8	
<p><u>LOCKERS</u></p>				
<p style="text-align: center;">Carried to Collection</p>				
<p>Section No. 2 Bill No. 7 Ceilings, Partitions and Access Flooring</p>				

	<p><u>Cubicle Solutions Locker-Bench Combinations with 2 doors, dimensions 1900h x 300w x 450d – lockers 1500h and bench 400h. Carcass manufactured using 4mm, 8mm and 12mm Compact High Pressure Laminate in white, doors in 12mm Compact High Pressure Laminate (colour: to be confirmed).</u> <u>Ironmongery to include auto return hinge (code: CSHNGFLCK) and D shaped keep (code: CSCHPL/K) for individuals own padlocks (no locking mechanism included), lock cover plate and handle (code: CSLCKNBNPLT) and lockers also have individual numbers.</u> <u>Lockers to sit on bench frame which is manufactured using powder coated mild steel, with a 400mm bench frame at the front of the lockers.</u> <u>Bench seating to be manufactured using 12mm Compact High Pressure Laminate , (colour: from stock-held colour range).</u></p>				
94	<p>4500m long x 450mm deep x 1900 high locker bench</p>	No	4		
95	<p><u>Cubicle Solutions lockers manufactured using 4mm, 8mm and 12mm Compact High Pressure Laminate, (code: CSCHPLL3D with 3 doors), dimensions 1800mm high x 300mm wide x 450mm deep</u> <u>Carcass or equal and approved manufactured using 4mm, 8mm and 12mm CHPL in white, doors in 12mm Compact High Pressure Laminate (colour: to be confirmed).</u> <u>Ironmongery to include auto return hinge (code: CSHNGFLCK) and D-shaped keep (code: CSCHPL/K) for individuals own padlocks (no locking mechanism included), lock cover plate and handle (code: CSLCKNBNPLT). Lockers are numbered using 2mm Rowmark brushed aluminium rectangle discs. Numbering sequence to be confirmed.</u> <u>Plinth 100mm and locker 1800mm, finishing height 1900mm</u></p> <p>3 Door locker Tier 300mm x 450mm x 1800mm</p>	No	84		
	<p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Bill No. 7 Ceilings, Partitions and Access Flooring</p>			R	

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

Section No. 2			
Bill No. 7			
Ceilings, Partitions and Access Flooring			
<u>COLLECTION</u>			
Total Brought Forward from Page No.	Page No	Amount	
	190		
	191		
	192		
	193		
	194		
	195		
	196		
	197		
	198		
	199		
	200		
	201		
	202		
	203		
	204		
	205		
Carried Forward to Summary of Section No. 2		R	
Section No. 2			
Bill No. 7			
Ceilings, Partitions and Access Flooring			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 8</u>			
	<u>FLOOR COVERINGS, WALL LININGS, ETC</u>			
	<u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
	<u>FLOOR COVERINGS</u>			
	<u>DUST ENTRANCE MAT</u>			
	<u>Decramat Mat-Lok Reversible double sided, 18mm gauge, heel-proof, closed construction barrier mat or equal and approved, consisting of electrostatic buffed-nylon rubber inserts, inserted and fixed into modular double-sided mill finish aluminium scraper sections, fixed in sunken aluminium mat surround formed of mill finished pre-formed matwell frame (Code: AMF31/31) complete with mitred edges and corner connectors, bedded into screed all in accordance with the manufacturer's instructions:</u>			
1	Door mat size 1000mm long x 2000mm wide	No	1	
2	Door mat size 1800mm long x 1800mm wide	No	2	
3	Door mat size 2000mm long x 1000mm wide	No	1	
4	Door mat size 2000mm long x 2800mm wide	No	2	
5	Door mat size 2000mm long x 3000mm wide	No	2	
6	Door mat size 3533mm long x 1500mm wide	No	1	
7	Door mat size 4442mm long x 1500mm wide	No	4	
8	Door mat size 4523mm long x 1500mm wide	No	2	
	Carried to Collection		R	
	Section No. 2 Bill No. 8 Floor Coverings, Wall Linings, etc			

	<p>For all floor coverings the following will apply:</p> <p>The previously prepared Class 1 sub-floor (min 25MPa) with a 50mm below surface dried moisture content reading of 75% RH in accordance with SANS 10070, using 5mm self levelling screed (measured separately) a moisture content reading of 75% should be produced.</p> <p>Should this not be achieved it will be the contractor's responsibility to apply a moisture barrier such as Tal X-Calibur X-Shield VaporStop or equal and approved as per the manufacturer's instruction in at least 2 coats at 90 degrees to each other using a short hair roller.</p> <p><u>2mm Thick flexible Camaro PUR PVC tile/plank and flooring with 0.3mm clear PVC wear layer, 0.07mm print film layer and 1.63mm backing ply featuring high quality cross-linked polyurethane reinforcement or equal and approved manufactured in accordance with EN649/EN ISO 10582 laid with the correct Polyflor approved LVT adhesive which has been spread using an A2 notched towel, including all cutting and waste, rolled in both directions with an articulated 68kg three sectional roller immediately after is has been laid into the adhesive product, installed in strict accordance with the manufacturer's instructions on plaster bedding (bedding elsewhere)</u></p>				
9	On floors	m2	1,417		
10	On floors in narrow widths	m2	36		
Carried to Collection					
Section No. 2 Bill No. 8 Floor Coverings, Wall Linings, etc					

	<u>2mm Thick Polysafe Verona PUR Safety Flooring or equal and approved 2m wide sheeting containing silicone carbide and aluminium oxide granules with stabilising crinette interlayer, the product should contain Dupont Supratec to facilitate easy cleaning and general maintenance of the surface, laid with an approved acrylic adhesive spread with a notched trowel and joints welded with a fully flexible Polyflor welding rod to provide a continuous finished surface including rolling with a 68kg articulated roller on completion, installed in strict accordance with the manufacturer's instructions on plaster bedding (bedding elsewhere)</u>				
11	On floors	m2	191		
12	On floors in narrow widths	m2	4		
13	Margins and borders not exceeding 200mm wide	m	386		
14	Turn-ups over coves and up against walls not exceeding 200mm girth	m	386		
15	65 x 2mm Polyspan EJC65 or equal and approved expansion joint cover fitted with 20mm wide polysulphide infill, plugged and screwed to floor base in strict accordance with the manufacturer's instructions.	m	6		
	<u>3.7mm Thick Heterogeneous Silentflor PUR sheet flooring with 0.65mm wear layer, 2m wide manufactured in accordance with R10 slip resistance classified DS to EN 13893 or equal and approved laid in an approved acrylic adhesive spread using an A2 notched trowel and joints welded with a fully flexible Polyflor welding rod to provide a continuous finished surface including rolling with a 68kg articulated roller on completion, installed in strict accordance with the manufacturer's instructions on plaster bedding (bedding elsewhere)</u>				
16	On floors	m2	3,765		
17	On floors in narrow widths	m2	46		
	Carried to Collection			R	
	Section No. 2 Bill No. 8 Floor Coverings, Wall Linings, etc				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

18	Margins and borders not exceeding 200mm wide	m	546		
19	Turn-ups over coves and up against walls not exceeding 200mm girth	m	546		
20	65 x 2mm Polyspan EJC65 or equal and approved expansion joint cover fitted with 20mm wide polysulphide infill, plugged and screwed to floor base in strict accordance with the manufacturer's instructions.	m	64		
	<u>2mm Thick Palettone PUR Group T homogeneous and monolayer non-directional multi flake design vinyl sheeting with UV cured cross linked PUR treatment or equal and approved manufactured in accordance with EN 649/ISO 10581 laid with the correct Polyflor approved acrylic adhesive including rolled in both directions with an articulated 68kg three-sectional roller immediately after installation, installed in strict accordance with the manufacturer's instructions on plaster bedding (bedding elsewhere)</u>				
21	On floors	m2	1,910		
22	On floors in narrow withs	m2	39		
23	Margins and borders not exceeding 200mm wide	m	276		
24	Turn-ups over coves and up against walls not exceeding 200mm girth	m	276		
	<u>2mm Thick Expona Flow PUR homogeneous fully flexiable vinyl sheeting with UV cured cross linked PUR treatment or equal and approved installed with and including on top of Standard XL 1.50mm laid with the correct Polyflor approved acrylic adhesive installed in strict accordance with the manufacturer's instructions on plaster bedding (bedding elsewhere)</u>				
25	Margins and borders not exceeding 200mm wide	m	621		
26	Turn-ups over coves and up against walls not exceeding 200mm girth	m	621		
Carried to Collection				R	
Section No. 2 Bill No. 8 Floor Coverings, Wall Linings, etc					

<u>SKIRTINGS, NOSINGS, ETC</u>					
<u>Vinyl accessories fixed to brick walls with approved acrylic adhesive in strict accordance with manufacturer's instructions</u>					
27	20 x 20mm Polyflor Polycove PC20 cove former fillet or equal and approved	m	1,396		
28	29,5mm CB30 Clip base and 30mm CTC 30 clip top capping by Polyflor or equal and approved	m	1,265		
29	35mm Polycap CS48 lipped capping strip or equal and approved or equal and approved	m	149		
30	Migua Migutec FG35/2000 expansion joint profile or equal and approved fixed in strict accordance with the manufacturers instructions	m	112		
31	Kirk Marketing SQE080 stainless steel square edge trim capping strip or equal and approved fixed in strict accordance with the manufacturer's instructions.	m	40		
<u>Polymer skirting Wallstyl® by NMCSA (011 466 0003) or equal and approved</u>					
32	15mm x 100mm High skirting type FD1 fixed to plastered wall with approved adhesive	m	2,429		
<u>BUMPER RAILS</u>					
<u>Standard Gradus bacterial / fungal growth resistant PVC-u or equal and approved bumper rails with bolts, washers and screws to be corrosion proof</u>					
33	Standard Gradus WGA100 Wall guard with aluminium retainer (Code: WGA100A) and PVC-u cover (Code: WGS100V/XXX) fixed with and including six 60mm long coach screws with heavy duty wall plugs, installed strictly to manufacturers specifications (BUM021)	m	16		
34	Standard Gradus patented universal end caps (Code: WGA1001/XXX) including reveal and fixings	No	28		
Carried to Collection				R	
Section No. 2					
Bill No. 8					
Floor Coverings, Wall Linings, etc					

35	Standard Gradus WGS125F wall guard complete with 50mm aluminium fixing clips (Code: WGS125FC), internal PVC-u bumper rail (Code: WGS125B) and PVC-u cover (Code: WGS125V/XXX) fixed with and including six 60mm long coach screws with heavy duty wall plugs, installed strictly to manufacturers specifications (BUM019)	m	69		
36	Standard Gradus end cap (Code: WGS1251/XXXX) including reveal and fixings	No	79		
37	Standard Gradus D200 Dual rail consisting of handrail and wall guard with aluminium retainer, PVC-u cover, universal returns (Code: D2004P) and mounting brackets (Code: D2003) fixed with and including six 60mm long coach screws with heavy duty wall plugs, installed strictly to manufacturers specifications (BUM020)	m	39		
38	Standard Gradus Outside corner (Code: D2002EP)	No	44		
39	Standard Gradus Inside corner (Code: D2002IP)	No	7		
40	Standard Gradus heavy duty black rubber wall guard (Code WGR200 EE Fender) installed to wall with approved adhesive strictly to manufacturers specification (BUM023)	m	103		
<u>CORNER PROTECTORS, ETC.</u>					
<u>Standard Gradus bacterial / fungal growth resistant PVC-u or equal and approved</u>					
41	75 x 75mm x 700mm high standard Gradus high impact corner guard 90 degree (Code: CGH7590) installed strictly to manufacturers specifications (BUM034)	No	7		
42	75 x 75mm x 900mm high standard Gradus high impact corner guard 90 degree (Code: CGH7590) installed strictly to manufacturers specifications (BUM033)	No	37		
Carried to Collection				R	
Section No. 2 Bill No. 8 Floor Coverings, Wall Linings, etc					

<u>DOOR PROTECTION</u>					
Door protection by Polyflor (011 609 3500) or equal and approved.					
All kick plates, push plates and edge protectors to be glued to unpainted door surface with an approved factory applied adhesive.					
Both front, back channel/angle edge protectors to be recessed for the total material thickness.					
All edge protectors with "U" shaped end to be either flush or rebated.					
All kick plates, push plates and edge protectors produced to individual size requirements and bevelled on edges to provide a smooth and safe finish.					
<u>1,5mm PVC-u Gadus Sanparrel sheets or equal and approved door protection</u>					
<u>Channel Edge Protector</u>					
43	40 x 20 x 1,5mm Thick channel section corner protector 300mm long fixed with patent adhesive to edge of timber door (door elsewhere)	No	58		
44	40 x 20 x 1,5mm Thick channel section corner protector 300mm long with 100mm cut-out for hinge fixed with patent adhesive to edge of timber door (door elsewhere)	No	58		
45	40 x 20 x 1,5mm Thick channel section corner protector 1000mm long fixed with patent adhesive to edge of timber door (door elsewhere)	No	135		
46	40 x 20 x 1,5mm Thick channel section corner protector 1000mm long with 100mm cut-out for hinge fixed with patent adhesive to edge of timber door (door elsewhere)	No	135		
Carried to Collection				R	
Section No. 2					
Bill No. 8					
Floor Coverings, Wall Linings, etc					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

	<u>Push plates, kicking plates, etc.:</u>				
47	450mm wide x 300mm high kick plate fixed with patent adhesive to timber door (door elsewhere)	No	6		
48	482mm wide x 300mm high kick plate fixed with patent adhesive to timber door (door elsewhere)	No	28		
49	743mm wide x 300mm high kick plate fixed with patent adhesive to timber door (door elsewhere)	No	4		
50	755mm wide x 300mm high kick plate fixed with patent adhesive to timber door (door elsewhere)	No	64		
51	813mm wide x 300mm high kick plate fixed with patent adhesive to timber door (door elsewhere)	No	120		
52	900mm wide x 300mm high kick plate fixed with patent adhesive to timber door (door elsewhere)	No	6		
53	965mm wide x 300mm high kick plate fixed with patent adhesive to timber door (door elsewhere)	No	80		
54	1000mm wide x 300mm high kick plate fixed with patent adhesive to timber door (door elsewhere)	No	2		
55	813mm wide x 300mm high bumper plate fixed with patent adhesive to timber door (door elsewhere)	No	85		
56	900 wide x 300mm high bumper plate fixed with patent adhesive to timber door (door elsewhere)	No	4		
57	965mm wide x 300mm high bumper plate fixed with patent adhesive to timber door (door elsewhere)	No	98		
58	1000mm wide x 300mm high bumper plate fixed with patent adhesive to timber door (door elsewhere)	No	2		
59	450mm wide x 1000mm high bumper plate fixed with patent adhesive to timber door (door elsewhere)	No	6		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 8				
	Floor Coverings, Wall Linings, etc				

60	643mm wide x 1000mm high bumper plate fixed with patent adhesive to timber door (door elsewhere)	No	4		
61	813mm wide x 1000mm high bumper plate fixed with patent adhesive to timber door (door elsewhere)	No	102		
62	900mm wide x 1000mm high bumper plate fixed with patent adhesive to timber door (door elsewhere)	No	8		
63	965mm wide x 1000mm high bumper plate fixed with patent adhesive to timber door (door elsewhere)	No	32		
64	1000mm wide x 1000mm high bumper plate fixed with patent adhesive to timber door (door elsewhere)	No	22		
<u>RAISED ACCESS FLOOR</u>					
<u>Lafarge Gypsum (011389 4500) or equal and approved</u>					
65	Snap-on Stringer access floor system with 600 x 600mm Type 2 steel clad cementitious core panels with factory bonded conductive and anti-static vinyl finish, supported by and including all necessary under structure components as per manufacturers specification for a finished floor height of 470mm above concrete floor with 1mm galvanised mild steel fire barrier around holes for sealing	m2	48		
66	Extra over for forming a ramp size 5,74mm long x 2,82mm wide	No	1		
<u>Extra over raised access floor</u>					
67	Straight cutting and fitting around perimeter walling etc., including all necessary additional supporting members, pedestals, etc.	m	28		
Carried to Collection				R	
Section No. 2 Bill No. 8 Floor Coverings, Wall Linings, etc					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

68	Raking cutting and fitting around perimeter walling etc., including all necessary additional supporting members, pedestals, etc.	m	28		
69	Decorative border internal trim	m	28		
70	120mm Diameter grommet	No	4		
71	170mm Diameter grommet	No	4		
72	Electrical floor service outlet	No	4		
73	600 x 600mm Perforated panels	No	2		
74	Air diffuser	No	2		
75	Lifting tool for panels	No	1		
	<u>WALL LININGS</u>				
	<u>Wall Panneling</u>				
76	12,5mm Taper edge Rhinoboard panelling full length board bands and continuous bands at skirting level and around the perimeter of doors and windows fixed to plastered walls fixed with Rhinolite gypsum plaster in vertical dabs of 50-75mm wide x 250mm long at 600mm centres, all joints to be covered with RhinoTape and two layers of RhinoGlide, lightly sanded and prepared to be decorated	m2	175		
77	12,5mm Thick Gyproc Gypstone BIG Quattro 41 flush jointed acoustical panelling or equal and approved size 2400 x 1200mm fixed to plastered walls fixed with Rhinolite gypsum plaster in vertical dabs of 50-75mm wide x 250mm long at 600mm centres, all joints to be covered with RhinoTape and two layers of RhinoGlide, lightly sanded and prepared to be decorated in strict accordance with the manufacturer's instructions	m2	600		
78	10 x 10mm PVC drywall trim fixed in strict accordance with the manufacturer's instructions	m	450		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 8				
	Floor Coverings, Wall Linings, etc				

	<u>PVC-U Wall Cladding</u>			
	<u>Supertec Magnesium Oxide Board wall cladding bud jointed by Supertec (011 868 4900) or equal and approved size 1200 x 3000 x 12mm thick installed flush to plastered walls with 40mm plugged and countersunk stainless steel screws at maximum 500mm centres in both directions (max 75mm from edge)</u>			
79	12mm Thick Board wall cladding bud jointed to plastered walls	m2	494	
	<u>Prepare and install Gradus (011 609 3500) Sanparrel PVC-u panels or equal and approved size 1220 x 2440 x 1,5mm thick sheet installed to board substrate with a Gradus approved adhesive, complete with 2mm joints all round, joints to be sealed with Gradus soft fill, wall boards and PVC-u panels joints to be staggered in all instances, installed strictly to manufacturers specification</u>			
80	Wall cladding	m2	494	
81	Gradus sanparrel PVC 409 inside corner cap or equal and approved	m	474	
82	22 x 22mm Gradus sanparrel PVC 90 degree outside corner guard or equal and approved	m	87	
83	50 x 50mm Gradus sanparrel PVC 90 degree outside corner guard or equal and approved	m	69	
84	50 x 50mm Gradus sanparrel PVC 90 degree outside corner guard or equal and approved around door frames, one leg cut to board thickness for flush finish	m	38	
85	Aluminium U channel end cap at skirting junction	m	266	
	Carried to Collection			
	Section No. 2 Bill No. 8 Floor Coverings, Wall Linings, etc			

**Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works**

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 9</u></p> <p><u>IRONMONGERY</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p>The tenderer is referred to the relevant Clauses in the separate document "Model Preambles for Trades (1999 Edition)" and to the "Architectural and Functional General Details" all in accordance with drawings and specifications and must take all requirements that are described therein into account in the cost rates</p> <p>Finishes to ironmongery</p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:</p> <p>BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled 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>			
	Carried to Collection		R	
	<p>Section No. 2 Bill No. 9 Ironmongery</p>			

<p><u>Proprietary items</u></p> <p>Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items</p> <p>Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered</p> <p>On request returnable samples are to be provided to the principal agent for consideration</p> <p><u>FIXING OF IRONMONGERY</u></p> <p>The contractor must allow for taking delivery, storage and later fix in position on different types of material including profit and waste</p> <p>All the fixing of ironmongery items to doors and frames which require screws shall be deemed to be included in the pricing of the items and screws are to be patented screws and nuts (Code RH7024 Art 500b30)</p> <p><u>IRONMONGERY FOR TYPE: 01 - WOODEN DD/DA</u></p> <p><u>HINGES, BOLTS ETC</u></p> <p><u>Union or equal and approved</u></p>					
1	200mm x 19mm Flush bolt SC (Code 8052-200SC)	No	1		
<u>DORMA OR EQUAL AND APPROVED</u>					
2	Dormakaba floor pivot bearing with angular contact roller bearing, with load capacity maximum 300kg (Code 7475AX)	No	2		
3	Dormakaba bottom strap for aluminium doors (Code 7421)	No	2		
Carried to Collection				R	
Section No. 2 Bill No. 9 Ironmongery					

<u>LOCKS</u>					
<u>Union Deadlock or equal and approved</u>					
4	Euro Cylinder Deadlock stainless steel (Code L-2115-78SS)	No	1		
<u>Assa Abloy or equal and approved</u>					
5	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	1		
6	Stainless steel Escutcheon on rose profile each (Code SS5305-05H)	No	2		
<u>DOOR CLOSER</u>					
<u>Assa Abloy or equal and approved</u>					
7	Transom Closer EN3 90 Hold Open (Code DC6113HO)	No	2		
<u>Union or equal and approved</u>					
8	Stainless steel door brace for 774 transom closer code SS-DB774TP	No	2		
<u>HANDLES</u>					
<u>Union or equal and approved</u>					
9	22mm Diameter Tubular stainless steel Dove Pull Handle on 76 x 304mm back plate - Blank (Code SS5D76x304-06SS)	No	4		
<u>SUNDRIES</u>					
10	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	1		
11	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	1		
Carried to Collection				R	
Section No. 2 Bill No. 9 Ironmongery					

<u>IRONMONGERY FOR TYPE : 02 - WOODEN STORE/CLEAN UTILITY SELF LOCKING SD</u>					
<u>HINGES, BOLTS ETC</u>					
<u>Assa Abloy or equal and approved</u>					
12	100 x 75mm Stainless steel Gr 13 butt hinge (Code JH-BB-SS-STD-2BB)	No	96		
<u>DOOR CLOSER</u>					
<u>Assa Abloy or equal and approved</u>					
13	Cam Motion Door Closer EN3-6 (Code DC 700)	No	48		
14	Stainless steel Escutcheon on rose profile each (Code SS5305-05H)	No	96		
<u>LOCKS</u>					
<u>Anti Thrust Night Latch W/O Cylinder</u>					
15	129 x 78mm Commercial Grade Emergency Exit Latch Lock Tested to BS-EN12209-2003 (Code L-2349-78SS)	No	48		
<u>Assa Abloy or equal and approved</u>					
16	65mm Knob Turn Patented double Cylinder to BSEN (Code CY110GMEt3333SN)	No	48		
<u>HANDLES</u>					
<u>Union or equal and approved</u>					
17	22mm Diameter Tubular stainless steel Dove Pull Handle on 76 x 304mm back plate - Blank (Code SS5D76x304-06SS)	No	96		
<u>SUNDRIES</u>					
18	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	48		
Carried to Collection				R	
Section No. 2					
Bill No. 9					
Ironmongery					

19	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	48	
	<u>IRONMONGERY FOR TYPE : 03 - WOODEN WARD DD/SA</u>			
	<u>HINGES, BOLTS ETC</u>			
	<u>Assa Abloy or equal and approved</u>			
20	100 x 75mm Stainless steel Gr 13 butt hinge (Code JH-BB-SS-STD-2BB)	No	16	
	<u>Union or equal and approved</u>			
21	200mm Flush bolt SC (Code 8052-200SC)	No	4	
	<u>DOOR CLOSER</u>			
	<u>Dormakaba or equal and approved</u>			
22	55mm Stroke Foot Operated Door Holder - Silver (Code D360/B)	No	8	
	<u>Assa Abloy or equal and approved</u>			
23	Stainless steel Escutcheon on rose profile each (Code SS5305-05H)	No	8	
	<u>LOCKS</u>			
	<u>Union or equal and approved</u>			
24	E/Profile Cylinder Dead Lock with adjustable roller latch - Stainless steel (Code L-2115-78SS/R)	No	4	
	Adjustable Roller Catch (Code ARC1182SS)	No	4	
	<u>Assa Abloy or equal and approved</u>			
25	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	4	
	<u>HANDLES</u>			
Carried to Collection				
Section No. 2 Bill No. 9 Ironmongery				

	<u>Union or equal and approved</u>				
26	22mm Diameter Tubular stainless steel Dove Pull Handle on 76 x 304mm back plate - Blank (Code SS5D76x304-06SS)	No	8		
	<u>IRONMONGERY FOR TYPE: 04 - WOODEN OFFICE SD</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Stainless Steel</u>				
27	100 x 75mm Stainless steel Gr 13 butt hinge (Code JH-BB-SS-STD-2BB)	No	46		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
28	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	23		
	<u>Union or equal and approved</u>				
29	108 x 78mm Commercial grade lock case with drawback latch and silent latch feature (Code L-2215-78SS/SL)	No	23		
	<u>HANDLES</u>				
	<u>Assa Abloy or equal and approved</u>				
30	22mm Dove lever handle on 152mm x 152mm backplate profile (Code SS6D66-22-05SS)	No	23		
	<u>SUNDRIES</u>				
31	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	23		
32	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	23		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 9				
	Ironmongery				

33	Hat and coat hook with buffer (Code SS8025SS) or equal and approved	No	23		
<u>IRONMONGERY FOR TYPE: 05 - Wooden WC entrance with Closer-Private Cubicle SD</u>					
<u>HINGES, BOLTS ETC</u>					
<u>Assa Abloy or equal and approved</u>					
34	100 x 75mm Stainless steel Gr 13 butt hinge (Code JH-BB-SS-STD-2BB)	No	16		
<u>DOOR CLOSER</u>					
<u>Assa Abloy or equal and approved</u>					
35	Cam Motion Door Closer EN1-4 (Code DC 500)	No	8		
<u>LOCKS</u>					
<u>Union or equal and approved</u>					
36	8mm WC Deadlock (Code 21314-76/8SS)	No	8		
<u>HANDLES</u>					
37	Dove Pull Handle on 152mm x 178mm Backplate, W/C Indicator (Handed RH/LH) (SS5D67TR/TL-5004SS) or equal and approved	No	16		
<u>SUNDRIES</u>					
38	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	8		
39	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	8		
40	Hat and coat hook with buffer (Code SS8025SS) or equal and approved	No	8		
<u>IRONMONGERY FOR TYPE: 07 - Entrance Ablution/Sluice/Ward Kitchen SD</u>					
Carried to Collection					
Section No. 2 Bill No. 9 Ironmongery					

<u>HINGES, BOLTS ETC</u>					
<u>Assa Abloy or equal and approved</u>					
41	100 x 75mm Stainless steel Gr 13 butt hinge (Code JH-BB-SS-STD-2BB)	No	72		
<u>DOOR CLOSER</u>					
<u>Assa Abloy or equal and approved</u>					
42	Cam Motion Door Closer EN3-6 (Code DC 700)	No	36		
43	Stainless steel Escutcheon on rose profile each (Code SS5305-05H)	No	72		
<u>LOCKS</u>					
<u>Assa Abloy or equal and approved</u>					
44	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	36		
<u>Union Deadlock or equal and approved</u>					
45	Euro Cylinder Deadlock stainless steel (Code L-2115-78SS)	No	36		
<u>HANDLES</u>					
<u>Union or equal and approved</u>					
46	22mm Diameter Tubular stainless steel Dove Pull Handle on 76 x 304mm back plate - Blank (Code SS5D76x304-06SS)	No	72		
<u>SUNDRIES</u>					
<u>Union or equal and approved</u>					
47	Door Stop (Code CZ8731SC)	No	36		
<u>IRONMONGERY FOR TYPE: 10 - Wooden Disabled WC/Bathroom/Shower SD</u>					
Carried to Collection				R	
Section No. 2 Bill No. 9 Ironmongery					

<u>HINGES, BOLTS ETC</u>				
<u>Assa Abloy or equal and approved</u>				
48	100 x 75mm Stainless steel Gr 13 butt hinge (Code JH-BB-SS-STD-2BB)	No	20	
49	Cam Motion Door Closer EN3-6 delayed action (Code DC 700DA)	No	10	
<u>LOCKS</u>				
<u>Union or equal and approved</u>				
50	8mm WC Deadlock (Code 21314-76/8SS)	No	10	
<u>HANDLES</u>				
<u>Union or equal and approved</u>				
51	22mm Diameter x 300mm BT Handle with Flange fixing stainless steel (Code PHD-CF-300-22SS)	No	10	
<u>Union or equal and approved</u>				
52	Dove Pull Handle on 152mm x 178mm Backplate, W/C Indicator (Handed RH/LH) (SS5D67TR/TL-5004SS)	No	20	
<u>SUNDRIES</u>				
53	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	10	
54	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	10	
<u>IRONMONGERY FOR TYPE: 12 - Single/ Double Mild Steel Gates</u>				
<u>LOCKS</u>				
Carried to Collection				R
Section No. 2 Bill No. 9 Ironmongery				

<u>Union or equal and approved</u>					
55	Euro profile mortice hook lock with latch 25mm set back, commercial grade, lock case to EU standards (Code QH25X85MM-SS)	No	5		
<u>Assa Abloy or equal and approved</u>					
56	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	5		
<u>HANDLES</u>					
<u>Union or equal and approved</u>					
57	22mm Diameter x 150mm BTB Pull Handle stainless steel (Code PHD-BB-150-22SS)	No	5		
<u>DOOR CLOSER</u>					
<u>Assa Abloy or equal and approved</u>					
58	Stainless steel Escutcheon on rose profile each (Code SS5305-05H)	No	5		
<u>SUNDRIES</u>					
59	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	5		
60	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	5		
<u>IRONMONGERY FOR TYPE: 13 - Aluminium DD</u>					
<u>HINGES, BOLTS ETC</u>					
<u>Union or equal and approved</u>					
61	35mm Swing bolt profile cylinder type (Code QD35x85MMSW-SS)	No	3		
62	180mm Flush bolt (Code AL8208-180AS/MD)	No	3		
Carried to Collection				R	
Section No. 2 Bill No. 9 Ironmongery					

<u>DOOR CLOSER</u>					
<u>Dorma or equal and approved</u>					
63	Dormakaba floor pivot bearing with angular contact roller bearing, with load capacity maximum 300kg (Code 7475AX)	No	6		
64	Dormakaba bottom strap for aluminium doors (Code 7421)	No	6		
<u>Assa Abloy or equal and approved</u>					
65	Transom Closer EN3 90 degree hold open (Code DC6113HO)	No	6		
<u>LOCKS</u>					
<u>Assa Abloy or equal and approved</u>					
66	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	3		
<u>Union or equal and approved</u>					
67	Escutcheon on rose narrow profile each (Code PZ-05H)	No	6		
<u>HANDLES</u>					
68	32mm Pull Handle cranked back to back (5905BBSS)	No	6		
<u>SUNDRIES</u>					
69	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	3		
70	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	3		
<u>IRONMONGERY FOR TYPE: 14 - Aluminium SD</u>					
<u>HINGES, BOLTS ETC</u>					
Carried to Collection				R	
Section No. 2					
Bill No. 9					
Ironmongery					

	<u>Union or equal and approved</u>				
71	35mm Swing bolt profile cylinder type (Code QD35x85MMSW-SS)	No	1		
	<u>DOOR CLOSER</u>				
	<u>DORMA OR EQUAL AND APPROVED</u>				
72	Dormakaba floor pivot bearing with angular contact roller bearing, with load capacity maximum 300kg (Code 7475AX)	No	1		
73	Dormakaba bottom strap for aluminium doors (Code 7422)	No	1		
	<u>Assa Abloy or equal and approved</u>				
74	Transom Closer EN3 90 degree hold open (Code DC6113HO)	No	1		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
75	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	1		
	<u>Union or equal and approved</u>				
76	Escutcheon on rose narrow profile each (Code PZ-05H)	No	2		
	<u>HANDLES</u>				
	<u>Union or equal and approved</u>				
77	475mm BTB Pull Handle (Code 5905BBSS)	No	1		
	<u>SUNDRIES</u>				
78	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	1		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 9				
	Ironmongery				

79	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	1		
	<u>IRONMONGERY FOR TYPE: 15 - Wooden Store Self Locking DD</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Assa Abloy or equal and approved</u>				
80	100 x 75mm Stainless steel Gr 13 butt hinge (Code JH-BB-SS-STD-2BB)	No	20		
	<u>Union or equal and approved</u>				
81	200mm Flush bolt SC (Code 8052-200SC)	No	5		
	<u>DOOR CLOSER</u>				
	<u>Assa Abloy or equal and approved</u>				
82	Cam Motion Door closer EN3-6 (Code DC700)	No	5		
83	Stainless steel Escutcheon on rose profile each (Code SS5305-05H)	No	10		
	<u>LOCKS</u>				
	<u>Anti Thrust Night Latch W/O Cylinder</u>				
84	129 x 78mm Commercial Grade Emergency Exit Latch Lock Tested to BS-EN12209-2003 (Code L-2349-78SS) or equal and approved	No	5		
	<u>Assa Abloy or equal and approved</u>				
85	CY110 Euro Profile Double Cylinder GMK (Code CY110GMET3333SN)	No	5		
	<u>HANDLES</u>				
86	22mm Diameter Tubular SS Dove Pull Handle on 76 x 304mm black plate - blank (Code SS5D76x304-06SS)	No	10		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 9				
	Ironmongery				

	<u>SUNDRIES</u>				
87	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	10		
88	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	10		
	<u>IRONMONGERY FOR TYPE: 16 - Access Controlled DoorDD/DS (Aluminium Door & Frame)</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Union or equal and approved</u>				
89	180mm Flush bolt (Code AL8208-180AS/MD)	No	4		
	<u>DOOR CLOSER</u>				
	<u>Assa Abloy or equal and approved</u>				
90	Dormakaba floor pivot bearing with angular contact roller bearing, with load capacity max. 300kg (Code 7475AX)	No	8		
91	Dormakaba bottom strap for aluminium doors (Code 7422)	No	8		
	<u>Assa Abloy or equal and approved</u>				
92	Transom Closer EN3 Non Hold Open (Code DC6113)	No	8		
	<u>ACCESS CONTROL</u>				
	<u>Union or equal and approved</u>				
93	No Touch Exit Device (Code EDS-K1-1)	No	8		
94	Green Break Glass (Code B-GLASS-G)	No	8		
95	35mm Backset Swing Bolt Deadlock (Code QD35X85MMSW-SS)	No	8		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 9				
	Ironmongery				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

96	Stainless steel Escutcheon on rose profile each (supplies by others) (Code SS5305-05H)	No	8		
	<u>Assa Abloy or equal and approved</u>				
97	CY110 Euro Profile Double Cylinder GMK (Code CY110GMED3333SN)	No	8		
98	EL404 Solenoid 35mm Fail Secure (Code EL404- 100000)	No	8		
99	Access control Reader, Exit, Safties, Wiring with commissioning by Others	No	8		
	<u>HANDLES</u>				
	<u>Union or equal and approved</u>				
100	32mm Pull Handle cranked back to back (5905BBSS)	No	8		
	<u>SUNDRIES</u>				
101	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	4		
102	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	4		
	<u>IRONMONGERY FOR TYPE: 20 - Wooden/Aluminium Sliding Double-Electric</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Union or equal and approved</u>				
103	35mm Narrow Slide Hook Bolt Lock-Euro profile 174 x 38mm Commercial Grade LOckcase to EU Standards, Certification on request (Code QH35X85MM-SS)	No	15		
	Carried to Collection			R	
	Section No. 2 Bill No. 9 Ironmongery				

	<u>SLIDING GEAR</u>				
104	Besam Automatic Bi-Parting sliding Operator or equal and approved to suite sliding aluminium door size maximum 2000mm long	No	15		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
105	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	15		
	<u>Union or equal and approved</u>				
106	Escutcheon on rose profile (Code PZ-05SS)	No	30		
	<u>HANDLES</u>				
	<u>Union or equal and approved</u>				
107	50 x 101mm Flush pull handle 12mm deep (Code 99004SS)	No	52		
	<u>IRONMONGERY FOR TYPE: 23 - Wooden Fire/Electrical Duct DD/SS</u>				
	<u>Assa Abloy or equal and approved</u>				
108	100 x 75mm Stainless steel Gr 13 butt hinge (Code JH-BB-SS-STD-2BB)	No	140		
	<u>LOCKS</u>				
	<u>Union or equal and approved</u>				
	Adjustable Roller Catch (Code ARC1182SS)	No	35		
	<u>HANDLES</u>				
109	Dove Pull Handles on 45 x 192mm high backplate (SS5D02SS) or equal and approved	No	70		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 9				
	Ironmongery				

	<u>SUNDRIES</u>				
110	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	35		
111	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	35		
	<u>IRONMONGERY FOR TYPE: 24 - Wooden DD/SA without door closer</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Assa Abloy or equal and approved</u>				
112	100 x 75mm Stainless steel Gr 13 butt hinge (Code JH-BB-SS-STD-2BB)	No	128		
	<u>Union or equal and approved</u>				
113	200mm Flush bolt SC (Code 8052-200SC)	No	32		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
114	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	32		
115	Stainless steel Escutcheon on rose profile each (Code SS5305-05H)	No	64		
	<u>Union or equal and approved</u>				
116	Euro Cylinder Deadlock Stainless steel (Code L-2115-78SS)	No	32		
117	Rebate conversion set (Code 2900SS)	No	32		
	Adjustable Roller Catch (Code ARC1182SS)	No	32		
	<u>HANDLES</u>				
	Carried to Collection			R	
	Section No. 2				
	Bill No. 9				
	Ironmongery				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

	<u>Union or equal and approved</u>				
118	22mm Diameter Tubular stainless steel Dove Pull Handle on 76 x 304mm back plate - Blank (Code SS5D76x304-06SS)	No	64		
	<u>SUNDRIES</u>				
119	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	32		
120	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	32		
	<u>IRONMONGERY FOR TYPE: 30 - Aluminium Duct SD</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Union or equal and approved</u>				
121	100 x 75 x 3mm Flush Ball Bearing Hinge (Code 8352-100FLSS E)	No	46		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
122	32mm Half Patented Cylinder GMK commercial use half cylinder BSEN (Code CY110GMES3310SN)	No	23		
	<u>Union or equal and approved</u>				
	Profile Roller Catch deadlock with 35mm stainless steel bracket (Code QR35X85MM-SS)	No	23		
123	Escutcheon On Rose Profile (Code PZ-05SS)	Pairs	23.0		
	<u>HANDLES</u>				
	<u>Union or equal and approved</u>				
124	50 x 101mm Flush pull handle 12mm deep (Code 99004SS)	No	23		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 9				
	Ironmongery				

	<u>SUNDRIES</u>				
125	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	23		
126	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	23		
	<u>IRONMONGERY FOR TYPE: 34 - Wooden Access Controlled door SD</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Assa Abloy or equal and approved</u>				
127	100 x 75mm Stainless steel Gr 13 butt hinge (Code JH-BB-SS-STD-2BB)	No	20		
	<u>DOOR CLOSER</u>				
	<u>Assa Abloy or equal and approved</u>				
128	Cam Motion Door Closer EN3-6 (Code DC 700)	No	10		
	<u>LOCKS</u>				
129	Salto XS4 Electronic lock (Code Ex751) or equal and approved	No	10		
	<u>HANDLES</u>				
130	350mm Stainless steel back to back D shaped pull handle (Code SS5213BBSS)	No	10		
	<u>SUNDRIES</u>				
131	Floor door Stop (Code 87001SS) or equal and approved	No	10		
	<u>IRONMONGERY FOR TYPE: 35 - Wooden Access Controlled door DD</u>				
	<u>HINGES, BOLTS ETC</u>				
	Carried to Collection			R	
	Section No. 2				
	Bill No. 9				
	Ironmongery				

	<u>Assa Abloy or equal and approved</u>				
132	100 x 75mm Stainless steel Gr 13 butt hinge (Code JH-BB-SS-STD-2BB)	No	4		
	<u>Union or equal and approved</u>				
133	200mm Flush Bolt SC (Code 8052-200SC)	No	1		
	<u>ACCESS CONTROL</u>				
	<u>Assa Abloy or equal and approved</u>				
134	CY110 Euro Profile Double Cylinder GMK (Code CY110GMED3333SN)	No	2		
135	Adams Rite Solenoid Bolt 12VDC (Code 1391-1042)	No	2		
136	Mechanical Co-ordinator Double Door SIL EN1-4 (Code FD461-DC500)	No	2		
	<u>Union or equal and approved</u>				
137	29900 Rebate Set Stainless steel for Case size 78 (Code 2900SS)	No	2		
138	Euro Cylinder Deadlock Stainless steel (Code L-2115-78SS)	No	2		
139	Escutcheon on Rose Profile Each (Code SS5305-05H)	No	2		
140	Access control Reader, Exit, Safties, Wiring with commissioning by Others	No	2		
	<u>HANDLES</u>				
	<u>Union or equal and approved</u>				
141	22mm Diameter Tubular SS Dove Pull Handle on 76 x 304mm black plate - blank (Code SS5D76x304-06SS)	No	2		
	<u>SUNDRIES</u>				
	Carried to Collection			R	
	Section No. 2 Bill No. 9 Ironmongery				

	<u>Union or equal and approved</u>				
142	27mm Wall Door Stop (Code 99011SS)	No	2		
143	82mm Wall Protection Door Stop (Code 99022SS)	No	2		
	<u>IRONMONGERY FOR TYPE: 45 - Wooden Fire/Electrical Duct SD/SS</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Assa Abloy or equal and approved</u>				
144	100 x 75mm Stainless steel Gr 13 butt hinge (Code JH-BB-SS-STD-2BB)	No	2		
	<u>LOCKS</u>				
	<u>Union or equal and approved</u>				
	Adjustable Roller Catch (Code ARC1182SS) or equal and approved	No	2		
	<u>HANDLES</u>				
145	Dove Pull Handles on 45 x 192mm high backplate (SS5D02SS)	No	1		
	<u>SUNDRIES</u>				
146	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	1		
147	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	1		
	<u>IRONMONGERY FOR TYPE: 51 - Aluminium Hinged DD/SD</u>				
	<u>HINGES, BOLTS ETC</u>				
	Carried to Collection			R	
	Section No. 2				
	Bill No. 9				
	Ironmongery				

	<u>Union or equal and approved</u>				
148	100 x 75 x 3mm Flush Ball Bearing Hinge (Code 8352-100FLSS E)	No	72		
	<u>Union or equal and approved</u>				
149	180mm Flush bolt (Code AL8208-180AS/MD)	No	18		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
150	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	18		
	<u>Union or equal and approved</u>				
151	35mm Back set Roller Latch & Swing Dead Bolt Mortice Lock (Code QR35x85MMSW-SS)	No	18		
152	Escutcheon On Rose Profile (Code PZ-05SS)	No	36		
	<u>HANDLES</u>				
153	32mm Pull Handle cranked back to back (5905BBSS)	No	36		
	<u>SUNDRIES</u>				
	<u>Union or equal and approved</u>				
154	Door Stop (Code CZ8731SC)	No	36		
155	150mm Cabin Hook Halcast (Code 150CH)	No	36		
	<u>IRONMONGERY FOR TYPE: 54 - WoodenAluminium Sliding Single-Electric</u>				
	<u>SLIDING GEAR</u>				
156	Besam Automatic Slider to suite sliding aluminium door or equal and approved size maximum 2000mm x 2125mm high	Sets	2		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 9				
	Ironmongery				

<u>LOCKS</u>					
<u>Union or equal and approved</u>					
157	35mm Back set Mortice Hook Lock (Code QHX35X85MM-SS)	No	2		
<u>Assa Abloy or equal and approved</u>					
158	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	2		
<u>Union or equal and approved</u>					
159	Escutcheon on rose profile (Code PZ-05SS)	No	4		
<u>HANDLES</u>					
<u>Union or equal and approved</u>					
160	50 x 100mm Flush pull handle 12mm deep (Code 99004SS)	No	4		
<u>IRONMONGERY FOR TYPE: 55 - Aluminium Duct DD</u>					
<u>HINGES, BOLTS ETC</u>					
<u>Union or equal and approved</u>					
161	100 x 75 x 3mm Flush Ball Bearing Hinge (Code 8352-100FLSS E)	No	48		
<u>Union or equal and approved</u>					
162	180mm Flush bolt (Code AL8208-180AS/MD)	No	24		
<u>LOCKS</u>					
<u>Assa Abloy or equal and approved</u>					
163	32mm Half Patented Cylinder GMK commercial use half cylinder BSEN (Code CY110GMES3310SN)	No	12		
Carried to Collection				R	
Section No. 2					
Bill No. 9					
Ironmongery					

	<u>Union or equal and approved</u>				
	Roller Catch swing deadbolt with 35mm stainless steel bracket (Code QR35X85MM-SS)	No	12		
164	Escutcheon on Rose Narrow Stile Profile (Code PZ-05H)	No	24		
	<u>HANDLES</u>				
	<u>Union or equal and approved</u>				
165	50 x 101mm Flush pull handle 12mm deep (Code 99004SS)	No	24		
	<u>SUNDRIES</u>				
166	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	12		
167	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	12		
	<u>IRONMONGERY FOR TYPE: 56 - Aluminium Hinged Single Door</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Union or equal and approved</u>				
168	100 x 75 x 3mm Flush Ball Bearing Hinge (Code 8352-100FLSS E)	No	72		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
169	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	36		
	<u>Union or equal and approved</u>				
170	35mm Backset Narrow Stile Roller & Swing Bolt (Code QD35x85MMSW-SS)	No	36		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 9				
	Ironmongery				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

171	Escutcheon on Rose Narrow Stile Profile (Code PZ-05H)	No	64		
	Adjustable Roller Catch (Code ARC1182SS)	No	36		
	<u>HANDLES</u>				
172	350mm Stainless steel back to back D shaped pull handle (Code 5213BBSS)	No	64		
	<u>SUNDRIES</u>				
173	Door Stop (Code CZ8731SC)	No	36		
174	150mm Cabin Hook Halcast (Code 150CH)	No	34		
	<u>IRONMONGERY FOR TYPE: 57 - Aluminium Sliding Folding Door</u>				
	<u>SLIDING GEAR</u>				
175	Henderson Securefold for aluminium 75kg top hung folding door comprising top track, bottom guide channel or aluminium threshold, consisting of 316 stainless steel components for corrosion, including hinges, flush bolt and pulls aluminium door 2694mm x 2125mm high, not exceeding 75kg	Sets	3		
	<u>LOCKS</u>				
	<u>Union or equal and approved</u>				
176	35mm Backset Narrow Stile Hook Bolt (Code QH35X85MM-SS)	No	3		
177	Escutcheon on rose profile (Code PZ-05SS)	No	6		
	<u>Assa Abloy or equal and approved</u>				
178	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	3		
	<u>HANDLES</u>				
Carried to Collection				R	
Section No. 2					
Bill No. 9					
Ironmongery					

	<u>Union or equal and approved</u>				
179	50 x 101mm Flush pull handle 12mm deep (Code 99004SS)	No	6		
	<u>IRONMONGERY FOR TYPE: 61 - Single/Double Mild Steel Gates (Padlock)</u>				
	<u>SUNDRIES</u>				
180	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	3		
181	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	3		
	<u>IRONMONGERY FOR TYPE: 81 - Access Controlled Aluminium Sliding Double Electric</u>				
	<u>SLIDING GEAR</u>				
182	Besam Automatic Bi-Parting sliding Operator to suite sliding aluminium door or equal and approved size maximum 2000mm x 2125mm high	Sets	1		
	<u>ACCESS CONTROL</u>				
	<u>Assa Abloy or equal and approved</u>				
183	Entrance System SL 500 2.8 Operator (CodeSDL1-1008568-2.8)	No	1		
184	Entrance Systems Program Selector PSK-6U (Code SLD1-1006263)	No	1		
185	Entrance System Battery 12V (SL500) (Code SER1-1011820)	No	1		
186	Entrance System Sensor SC31-M (code SLD1-1701729)	No	1		
187	Entrance System Sensor SA52 (Code SLD1-1702783)	No	1		
188	Entrance System Auto Door Roller (Code SER2-BES100)	No	1		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 9				
	Ironmongery				

189	Entrance System (Code SER2-LABLPH) colour to be confirmed including installation and commissioning of Door operator	No	1		
190	Entrance System M2M Lock complete - Fail Secure (SL500) (Code SER1-33000639)	No	1		
191	Access control Reader, Exit, Safties, Wiring with commissioning by Others	No	1		
	<u>HANDLES</u>				
	<u>Union or equal and approved</u>				
192	50 x 101mm Flush pull handle 12mm deep (Code 99004SS)	No	4		
	<u>IRONMONGERY FOR TYPE: 103 - Access Controlled Aluminium Hinged Single Door</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Union or equal and approved</u>				
193	100 x 75 x 3mm Flush Ball Bearing Hinge (Code 8352-100FLSS E)	No	2		
	<u>ACCESS CONTROL</u>				
	<u>Union or equal and approved</u>				
194	No Touch Exit Device (Code EDS-K1-1)	No	1		
195	Adams Rite Solenoid Bolt 12VDC (Code 1391-1042)	No	1		
196	35mm Deadbolt Lock Stainless steel (Code QD35X85MM-SS)	No	1		
	<u>Assa Abloy or equal and approved</u>				
197	CY110 Euro Profile Double Cylinder GMK (Code CY110GMED3333SN)	No	1		
198	Stainless Steel Door Loop 180 degrees (Code EA281-1)	No	1		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 9				
	Ironmongery				

199	Access control Reader, Exit, Safties, Wiring with commissioning by Others	No	1		
	<u>LOCKS</u>				
	<u>Union or equal and approved</u>				
200	Escutcheon on Rose Narrow Stile Profile (Code PZ-05H)	No	2		
	Adjustable Roller Catch (Code ARC1182SS)	No	1		
	<u>HANDLES</u>				
201	350mm Stainless steel back to back D shaped pull handle (Code 5213BBSS)	No	1		
	<u>SUNDRIES</u>				
202	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	1		
203	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	1		
	<u>IRONMONGERY FOR TYPE: 106 - Wooden Access Control SD</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Union or equal and approved</u>				
204	100 x 75 x 3mm Flush Ball Bearing Hinge (Code 8352-100FLSS E)	No	45		
205	200mm Alu RFLX hinge ano pair (Code 8352-200SN) or equal and approved	No	45		
	<u>LOCKS</u>				
206	Salto XS4 Electronic lock (Code Ex751) or equal and approved	No	45		
Carried to Collection				R	
Section No. 2 Bill No. 9 Ironmongery					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

	<u>Union or equal and approved</u>				
	Adjustable Roller Catch (Code ARC1182SS)	No	45		
	<u>SUNDRIES</u>				
207	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	45		
208	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	90		
209	Hat and coat hook with buffer (Code SS8025SS) or equal and approved	No	45		
	<u>IRONMONGERY FOR TYPE: 107 - Wooden Entrance Ablution SD</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Stainless Steel</u>				
210	200mm Alu RFLX hinge ano pair (Code 8352-200SN) or equal and approved	No	20		
	<u>Union or equal and approved</u>				
211	Spring latch and dead bolt lock (Code Q35X85MM-SS)	No	10		
	<u>DOOR CLOSER</u>				
	<u>Assa Abloy or equal and approved</u>				
212	Cam Motion Door Closer EN3-6 (Code DC 700)	No	10		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
213	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	10		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 9				
	Ironmongery				

	<u>Union or equal and approved</u>				
214	Sandpiper narrow stile stainless steel furniture with Euro profile cylinder piercing (Code 6503-05SS)	No	10		
	<u>SUNDRIES</u>				
215	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	10		
216	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	20		
	<u>IRONMONGERY FOR TYPE: 110 - Aluminium Panel Screen SD</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Union or equal and approved</u>				
217	100 x 75 x 3mm Flush Ball Bearing Hinge (Code 8352-100FLSS E)	No	4		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
218	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	2		
	<u>Union or equal and approved</u>				
219	Narrow Slide escutcheon for aluminium door (Code PZ-05)	No	2		
	Narrow Stile Roller & Swingbolt 35mm Backset (Code QR35X85MMSW-SS)	No	2		
	<u>HANDLES</u>				
	<u>Union or equal and approved</u>				
220	50 x 101mm Flush pull handle 12mm deep (Code 99004SS)	No	2		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 9				
	Ironmongery				

	<u>SUNDRIES</u>				
221	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	2		
222	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	2		
	<u>IRONMONGERY FOR TYPE: 111 - Aluminium Panel Screen SD</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Union or equal and approved</u>				
223	100 x 75 x 3mm Flush Ball Bearing Hinge (Code 8352-100FLSS E)	No	4		
	<u>Union or equal and approved</u>				
224	180mm Flush bolt (Code AL8208-180AS/MD)	No	1		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
225	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	1		
	<u>Union or equal and approved</u>				
226	Narrow Slide escutcheon for aluminium door (Code PZ-05)	No	1		
	Narrow Stile Roller & Swingbolt 35mm Backset (Code QR35X85MMSW-SS)	No	1		
	<u>HANDLES</u>				
	<u>Union or equal and approved</u>				
227	50 x 101mm Flush pull handle 12mm deep (Code 99004SS)	No	1		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 9				
	Ironmongery				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

	<u>SUNDRIES</u>				
228	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	1		
229	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	1		
	<u>SUNDRIES</u>				
230	Standard 500mm long aluminium multi rack hat and coat hooks Union (Code: AL8104AS) or equal and approved with 4 hooks installed strictly to manufactures specifications	No	29		
231	Standard 457mm long x 139mm wide towel hooks by Stiegelmeyer (021 555 1415) (Model: ITS-410) or equal and approved installed strictly to manufacturers specifications	No	3		
232	Broom and mop hook of purpose made stainless steel back plate 1,6mm thick x 900 x 450mm high non magnetic with grid 180 satin finish glued and screwed to wall surface with approved adhesive and six counter sunk stainless steel screws, complete with 900mm long stainless steel standard rail with five broom hooks by Hychem Accessories or equal and approved	No	9		
233	1200mm Long garden rack (Code: DH-LT1200) with five hooks (DH-LU) by Storage Direct (011 608 0250) or equal and approved installed strictly to manufacturers specifications	No	8		
	<u>GRAB RAILS, ETC</u>				
	Grabs rails, etc. by Stainless Steel design (012 951 5000) or equal and approved				
234	Standard 800mm long x 150mm projecting straight disabled rail (Code KB18) installed strictly to manufactures instructions	No	15		
	Carried to Collection			R	
	Section No. 2 Bill No. 9 Ironmongery				

235	Standard 800mm long x 150mm projecting straight disabled rail (code KB18) by Stainless Steel Design or equal and approved installed strictly to manufacturers specification	No	15		
236	Standard 300 x 300 x 300 x 80mm projecting dog leg side rail (Code KB26) installed strictly to manufactures instructions	No	15		
<u>BATHROOM FITTINGS</u>					
<u>Bathroom fittings by Franke (0861 372 653) or equal and approved</u>					
237	Franke Rodan RODX600 0,8mm thick satin finished stainless steel paper towel dispenser (Code 2120099) size 275 x 112 x 355mm high with capacity of 500-800 towel, inspection window on the side and standard Franke key, plugged and screwed to wall with stainless steel screws	No	52		
238	Franke Rodan RODX672 0.8mm thick satin finished stainless steel double toilet roll holder with spindle system (Code 2120101), size 144 x 138x 301mm high for two rolls maximum 120mm diameter with cylinder lock with standard Franke key, plugged and screwed to wall with stainless steel screws	No	81		
239	Franke Rodan RODX605 0.8mm thick satin finished stainless steel waste bin (Code 2120097) size 355 x 168 x 460mm high, capacity of 23 litres and cylinder lock and standard Franke key plugged and screwed to wall with stainless steel screws	No	52		
240	Franke Rodan RODX611 0.8mm thick satin finished stainless steel sanitary towel disposal bin (Code 2120070) size 200 x 295 x 165mm high plugged and screwed to wall with stainless steel screws	No	55		
241	Franke Rodan RODX625 0.8mm thick satin finished stainless steel soap dispenser (Code 2120107), size 120 x 295 x 296mm, plugged and screwed to wall with stainless steel screws	No	82		
Carried to Collection				R	
Section No. 2 Bill No. 9 Ironmongery					

242	Franke Chronos BS 648 grade 18/10 satin stainless steel soap tray (Code 2120075) size 195 x 96mm deep plugged to walls	No	15		
	<u>SEATS</u>				
243	Shower seat galvanized and epoxy coated with manual flip up mechanism, frame from 25mm round steel tube with 2mm wall thickness complete with brackets for wall fixing, seat in perforated mild steel welded to frame size 380mm wide x 480mm deep, supplied by Masakhane (012 361 1214) or equal and approved	No	3		
	<u>ELECTRICAL HAND DRIER</u>				
244	Franke HF2400 HD grade 304 1,2/1,5mm thick 18/10 stainless steel automatic hands free hand dryer (code 2500001) or equal and approved size 284 x 202 x 248mm deep with vandal proof lock screws and key wrench, plugged and screwed to wall with stainless steel screws, 200V motor connected to 230/240 volt supply installed strictly to manufacturers specifications	No	17		
	<u>CABINETS, ETC.</u>				
	<u>Instrument cabinet by Frankie or equal and approved</u>				
245	900 x 300 x 600mm High stainless steel purpose made wall cupboard made without door with one shelf fixed to wall with stainless steel bolts to comply with SABS standards (CUPW028)	No	2		
	<u>Drug cabinet by Ingwe Craft (083 377 1919) or equal and approved</u>				
246	Standard 711 x 280 x 711mm high lockable mild steel type cabinet complete with internal lockable compartment and shelves (Type d) finished with PPA 200 micron cost finish (Code: MC 20)	No	2		
Carried to Collection				R	
Section No. 2 Bill No. 9 Ironmongery					

247	Standard 711 x 280 x 762mm high lockable mild steel type cabinet complete with internal lockable compartment and shelves (Type d) finished with PPA 200 micron cost finish (Code: MC 20)	No	2		
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u>				
	Pinning, Writing boards by Parrot Products (0861 262 737) or equal and approved				
248	Purpose made white writing board size 1500mm wide x 1000mm high with fold away aluminium pentray, anodised aluminium slimline frame 18mm wide with concealed mounting fixed to wall installed strictly to manufacturers specifications (BOA004)	No	58		
249	Purpose made white writing board size 2000mm wide x 1000mm high with fold away aluminium pentray, anodised aluminium slimline frame 18mm wide with concealed mounting fixed to wall installed strictly to manufacturers specifications (BOA006)	No	16		
250	Purpose made white writing board size 2400mm wide x 1000mm high with fold away aluminium pentray, anodised aluminium slimline frame 18mm wide with concealed mounting fixed to wall installed strictly to manufacturers specifications (BOA007)	No	27		
251	Standard made bulletin board (Code: BD0444C) size 1000mm wide x 1000mm high with fold away aluminium pentray, anodised aluminium standard frame 20mm wide with concealed mounting fixed to wall installed strictly to manufacturers specifications (BOA010)	No	10		
252	Purpose made bulletin board size 1500mm wide x 1000mm high with fold away aluminium pentray, anodised aluminium standard frame 20mm wide with concealed mounting fixed to wall installed strictly to manufacturers specifications (BOA012)	No	68		
Carried to Collection				R	
Section No. 2 Bill No. 9 Ironmongery					

253	Hinged pinning display case size 900mm wide x 600mm high x 60mm deep, aluminium frame with reinforced plastic corners, hinges door of aluminium frame and 4mm toughened glass and security lock with 2 keys built into door frame, weather resistant plugged to wall (BOA019)	No	25		
254	Purpose made patient name board and bed number white board size 250mm wide x 270mm high, anodised aluminium slimline frame 18mm wide with concealed mounting fixed to wall installed strictly to manufacturers specifications with printed lettering to attached detailed drawing (BOA023) (HDG-046-008)	No	10		
255	Multi-purpose paper gripper 1000mm long (Code: SKU:BD9342A) plugged to wall (BOA029)	No	25		
<u>X-RAY VIEWING SCREEN</u>					
256	Standard one plate surface mounted single x-ray viewing screen size 360 x 429mm high complete with switch and fluorescent lamps by Hutz (Code: HU-XRU-W-01) or equal and approved installed strictly to manufacturers specifications	No	2		
<u>ELECTRICAL HAND DRIERS</u>					
257	Franke HF2400 HD grade 304 1,2/1,5mm thick stainless steel automatic hands free hand dryer (Code 2500001) size 284 x 202 x 248mm deep or equal and approved with vandal proof lock screws and key wrench, plugged to wall, 200W motor connected to 230/240 volt power supply, installed strictly to manufacturers specifications	No	23		
<u>BLINDS</u>					
Carried to Collection				R	
Section No. 2 Bill No. 9 Ironmongery					

	<u>Aluminium Venetian Blinds by Hospi-Track (011 824 2293) or equal and approved of 50mm wide slat with matching De Luxe 50 x 50mm head rail including brass cordlock and galvanised tilt mechanism fixed to one side of handrail including heavy duty universal box brackets complete with matching authentic wood bottom rail, valance, bottom bottoms and tassels installed strictly to manufacturers specifications</u>					
258	Venetian blind size 600mm wide x 850mm long	No	1			
259	Venetian blind size 600mm wide x 2295mm long	No	1			
260	Venetian blind size 600mm wide x 2380mm long	No	13			
261	Venetian blind size 600mm wide x 2831mm long	No	10			
262	Venetian blind size 600mm wide x 2975mm long	No	7			
263	Venetian blind size 600mm wide x 3145mm long	No	11			
264	Venetian blind size 758mm wide x 2380mm long	No	1			
265	Venetian blind size 815mm wide x 2380mm long	No	1			
266	Venetian blind size 885mm wide x 2210mm long	No	1			
267	Venetian blind size 885mm wide x 3145mm long	No	2			
268	Venetian blind size 900mm wide x 2295mm long	No	4			
269	Venetian blind size 900mm wide x 2380mm long	No	1			
270	Venetian blind size 900mm wide x 2720mm long	No	5			
271	Venetian blind size 900mm wide x 2975mm long	No	1			
272	Venetian blind size 900mm wide x 3145mm long	No	1			
273	Venetian blind size 922mm wide x 1020mm long	No	1			
274	Venetian blind size 1020mm wide x 3315mm long	No	3			
275	Venetian blind size 1200mm wide x 2295mm long	No	1			
Carried to Collection					R	
Section No. 2 Bill No. 9 Ironmongery						

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

276	Venetian blind size 1264mm wide x 1190mm long	No	1		
277	Venetian blind size 1428mm wide x 3185mm long	No	1		
278	Venetian blind size 1485mm wide x 2720mm long	No	1		
279	Venetian blind size 1485mm wide x 2380mm long	No	3		
280	Venetian blind size 1500mm wide x 1955mm long	No	1		
281	Venetian blind size 1500mm wide x 2380mm long	No	2		
282	Venetian blind size 1500mm wide x 2805mm long	No	1		
283	Venetian blind size 1500mm wide x 2975mm long	No	1		
284	Venetian blind size 1674mm wide x 1955mm long	No	2		
285	Venetian blind size 1745mm wide x 2380mm long	No	2		
286	Venetian blind size 1792mm wide x 1190mm long	No	1		
287	Venetian blind size 1800mm wide x 1955mm long	No	2		
288	Venetian blind size 1800mm wide x 2720mm long	No	1		
289	Venetian blind size 1800mm wide x 2380mm long	No	6		
290	Venetian blind size 1800mm wide x 2975mm long	No	2		
291	Venetian blind size 1800mm wide x 3230mm long	No	1		
292	Venetian blind size 2100mm wide x 2975mm long	No	2		
293	Venetian blind size 2100mm wide x 2380mm long	No	4		
294	Venetian blind size 2400mm wide x 1955mm long	No	2		
295	Venetian blind size 2400mm wide x 2975mm long	No	2		
296	Venetian blind size 2400mm wide x 2380mm long	No	6		
297	Venetian blind size 2579mm wide x 850mm long	No	1		
Carried to Collection				R	
Section No. 2 Bill No. 9 Ironmongery					

298	Venetian blind size 2700mm wide x 3145mm long	No	1	
299	Venetian blind size 3125mm wide x 1190mm long	No	1	
	<u>Custom made Roller Block out Blinds (Manual) by Luxaflex (011 251 7002) or equal and approved installed strictly to manufactures specification</u>			
300	Roller blind size 455mm wide x 935mm high	No	1	
301	Roller blind size 585mm wide x 2380mm high	No	1	
302	Roller blind size 585mm wide x 2720mm high	No	19	
303	Roller blind size 600mm wide x 2720mm high	No	21	
304	Roller blind size 600mm wide x 3060mm high	No	3	
305	Roller blind size 800mm wide x 3707mm high	No	1	
306	Roller blind size 885mm wide x 2380mm high	No	2	
307	Roller blind size 885mm wide x 2720mm high	No	1	
308	Roller blind size 900mm wide x 2295mm high	No	1	
309	Roller blind size 900mm wide x 2380mm high	No	6	
310	Roller blind size 900mm wide x 2720mm high	No	27	
311	Roller blind size 900mm wide x 2975mm long	No	1	
312	Roller blind size 900mm wide x 4250mm long	No	1	
313	Roller blind size 1302mm wide x 935mm high	No	1	
314	Roller blind size 1140mm wide x 2720mm high	No	1	
315	Roller blind size 1500mm wide x 2380mm high	No	1	
316	Roller blind size 1588mm wide x 850mm high	No	2	
317	Roller blind size 1610mm wide x 935mm high	No	2	
Carried to Collection				
Section No. 2 Bill No. 9 Ironmongery				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

318	Roller blind size 1785mm wide x 2380mm high	No	1			
319	Roller blind size 1785mm wide x 3230mm high	No	4			
320	Roller blind size 1800mm wide x 2493mm long	No	1			
321	Roller blind size 1800mm wide x 2720mm high	No	4			
322	Roller blind size 1800mm wide x 2380mm high	No	1			
323	Roller blind size 1800mm wide x 2890mm long	No	1			
324	Roller blind size 1800mm wide x 3230mm high	No	4			
325	Roller blind size 2134mm wide x 935mm high	No	1			
326	Roller blind size 2157mm wide x 935mm high	No	1			
327	Roller blind size 2175mm wide x 850mm high	No	1			
328	Roller blind size 2400mm wide x 2295mm high	No	2			
329	Roller blind size 2715mm wide x 850mm high	No	1			
330	Roller blind size 2723mm wide x 3825mm high	No	1			
331	Roller blind size 2735mm wide x 850mm high	No	2			
332	Roller blind size 2770mm wide x 850mm high	No	1			
333	Roller blind size 2771mm wide x 850mm high	No	1			
334	Roller blind size 2787mm wide x 850mm high	No	2			
335	Roller blind size 2800mm wide x 850mm high	No	4			
336	Roller blind size 2826mm wide x 850mm high	No	4			
337	Roller blind size 2828mm wide x 3825mm high	No	1			
338	Roller blind size 2850mm wide x 3825mm high	No	1			
339	Roller blind size 2957mm wide x 850mm high	No	2			
Carried to Collection				R		
Section No. 2 Bill No. 9 Ironmongery						

340	Roller blind size 2965mm wide x 2465mm high	No	1		
341	Roller blind size 3300mm wide x 1955mm high	No	1		
342	Roller blind size 3300mm wide x 2380mm high	No	1		
343	Roller blind size 3442mm wide x 850mm high	No	1		
344	Roller blind size 3350mm wide x 2975mm high	No	3		
345	Roller blind size 3600mm wide x 2720mm high	No	1		
346	Roller blind size 3642mm wide x 2975mm high	No	2		
347	Roller blind size 3716mm wide x 3825mm high	No	5		
348	Roller blind size 3727mm wide x 3825mm high	No	3		
349	Roller blind size 3780mm wide x 935mm high	No	1		
350	Roller blind size 3871mm wide x 850mm high	No	1		
351	Roller blind size 3885mm wide x 2465mm high	No	1		
352	Roller blind size 4316mm wide x 850mm high	No	1		
353	Roller blind size 5623mm wide x 5270mm high	No	1		
	<u>BED CURTAIN TRACKS</u>				
	<u>Natural anodised (10micron) extruded profile H/S43353 bed curtain track by Hospi-track (011 824 2293) (Code: SK/CFix) or equal and approved including all runners (12 per meter), end stops, spacers, wall mountings, firm fixed end caps/stoppers fixed to ceiling, secured through suspended ceiling grid system and supported from steel roof trusses or concrete slab installed complete as per the manufacturer's instructions</u>				
354	Curtain track including 12 gliders per metre, hangers, brackets, stopped ends, etc	m	53		
	<u>BED CURTAINS</u>				
	Carried to Collection			R	
	Section No. 2 Bill No. 9 Ironmongery				

	<u>CODE: H/T/BS/N100/9 Cubicle Curtain by Hospi-Track (011 824 2293) or equal and approved manufactured with non-iron, non-stain, shrink free, flame retardant, nylon free, fully washable air-vented netting composition to be aluminium thread inserted with curtain tie back attached in 100% polyester material to match curtain fabric, sewn onto one end and completed with velcro back strapping. Curtains standard with ration of 1:25 of length of cubicle rail</u>							
355	Cubicle curtain for cubicle track, length of curtain from track to bottom 1690mm high	m	6					
356	Cubicle curtain for cubicle track, length of curtain from track to bottom 2758mm high	m	47					
<p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Bill No. 9 Ironmongery</p>								

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

<p>Section No. 2</p> <p>Bill No. 9</p> <p>Ironmongery</p> <p><u>COLLECTION</u></p>				
	Page No		Amount	
Total Brought Forward from Page No.	219			
	220			
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Carried Forward		R		
<p>Section No. 2</p> <p>Bill No. 9</p> <p>Ironmongery</p>				

**Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works**

Section No. 2				
Bill No. 9				
Ironmongery				
<u>COLLECTION</u>				
	Page No		Amount	
Brought Forward		R		
Total Brought Forward from Page No.	239			
	240			
	241			
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	246			
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	248			
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	254			
	255			
	256			
	257			
Carried Forward		R		
Section No. 2				
Bill No. 9				
Ironmongery				

**Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works**

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 9</u></p> <p><u>STRUCTURAL STEELWORK</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>All structural steelwork shall be fabricated and erected in accordance with SABS 1200H.</p> <p>All dimensions shall be checked on site before shop drawings commence, any discrepancies shall be brought to the attention of the Engineer.</p> <p>A complete set of shop drawing shall be submitted to the Engineer for approval before fabrication commences. The contractor shall allow 2 weeks for checking and approval by the Engineer and shall also allow for any possible changes to shop drawings.</p> <p>The contractor shall design all welds and, where necessary, gussets of sufficient strength shall be provided to obtain the required weld lengths.</p> <p>Setting-out points (S.O.P'S) at member centroids shall conform to those shown on general arrangement drawings. No eccentricities, except those shown on the Engineer's drawings, shall be allowed.</p> <p>All structural steelwork shall be grade S355JR, except cold formed hollow sections which shall be commercial grade.</p> <p>A certificate from the steel manufacturer in which the grade or the structural steel is verified shall be handed to the Engineer for approval.</p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>Bill No. 10</p> <p>Structural Steelwork</p>			

	<p>All structural bolts shall be grade 4.8 unless otherwise noted.</p> <p>The proposed method and sequence of erection of the structure shall be submitted to the Engineer for written approval. Such submission is to take place at time of shop drawing submittal. The contractor shall indicate the proposed method of propping to ensure stability of the structure during erection. Such stability during erection remains the contractor's responsibility. Where temporary bracing or propping is necessary, the contractor shall be responsible for the design, erection, maintenance and removal (where necessary) of such supports. Proposal of such bracing or propping shall be submitted to the Engineer at an early stage for written approval.</p> <p>System No 012 from SABS 0120 : Part 3 Section HC-1988 shall be used for the corrosion protection of structural steel, and is as follows:</p> <p>A. Removal all slag from welded joints to expose the steelwork.</p> <p>B. Preparation of steelwork shall be executed in dry conditions in the workshop and consist of mechanical wire brush to standard SIS 05 59 00 St 2.</p> <p>C. First coat (30µm minimum): Zinc phosphate this later shall be applied within 4 hours preparation.</p> <p>D. Second coat (30µm minimum): Alkyd enamel</p> <p>E. All paint shall be applied strictly in accordance with SABS 1200 HC-1988 and the manufacturer's instructions.</p> <p>F. Repair of damaged paint and painting of site connection and connectors shall be in accordance with SABS 1200 HC and SABS 0120 : Part 3 Section HC.</p> <p>G. The standard of preparation of the steelwork and the thicknesses of the different coats of paint shall be verified according to SABS 1200 HC Clause 7</p> <p>H. External steel to be hot dip galvanised to SANS/ISO 1461</p> <p>Where applicable, grout shall be provided under base plated before any primary loads are applied to the structure.</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 10 Structural Steelwork</p>				
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<p>System No 150 from SABS 0120 : Part 3 section HC-1988 shall be used for the corrosion protection of the structural steel and is as follows:</p> <p>A. Preparation of steelwork and application of coats in accordance with SABS1461/SANS 121</p> <p>B. Hot dip galvanise to min 100 µm</p> <p>The Galvaniser must be a member of the hot dip Galvanisers Association of southern Africa and the Galvanizer to be informed if the product will be painted.</p> <p><u>STEEL COLUMNS, BEAMS, POSTS, ETC.</u></p> <p><u>ROOF STRUCTURE BLOCK A - LOWER ROOF</u></p> <p><u>Welded beams in single lengths with flat section gusset, top, bearer and connection plates:</u></p> <table><tr><td>1</td><td>354 x 171 x 51kg/m I-Section beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 8m above ground level</td><td>†</td><td>8.04</td></tr><tr><td>2</td><td>254 x 146 x 31kg/m I-Section beam in tapered roof truss ends including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level</td><td>†</td><td>0.81</td></tr><tr><td>3</td><td>70 x 70 x 5mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level</td><td>†</td><td>0.86</td></tr><tr><td>4</td><td>60 x 60 x 5mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level</td><td>†</td><td>0.25</td></tr></table> <p><u>ROOF STRUCTURE BLOCK A - UPPER ROOF</u></p> <p><u>Welded beams in single lengths with flat section gusset, top, bearer and connection plates:</u></p> <table><tr><td>5</td><td>457 x 191 x 67kg/m I-Section cross beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 10m above ground level</td><td>†</td><td>1.72</td></tr></table> <p>Carried to Collection</p> <p>Section No. 2 Bill No. 10 Structural Steelwork</p>		1	354 x 171 x 51kg/m I-Section beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 8m above ground level	†	8.04	2	254 x 146 x 31kg/m I-Section beam in tapered roof truss ends including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level	†	0.81	3	70 x 70 x 5mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level	†	0.86	4	60 x 60 x 5mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level	†	0.25	5	457 x 191 x 67kg/m I-Section cross beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 10m above ground level	†	1.72					
1	354 x 171 x 51kg/m I-Section beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 8m above ground level	†	8.04																							
2	254 x 146 x 31kg/m I-Section beam in tapered roof truss ends including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level	†	0.81																							
3	70 x 70 x 5mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level	†	0.86																							
4	60 x 60 x 5mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level	†	0.25																							
5	457 x 191 x 67kg/m I-Section cross beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 10m above ground level	†	1.72																							

6	305 x 165 x 40kg/m I-Section cross beam including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 10m above ground level	t	0.99		
7	203 x 133 x 25kg/m I-Section roof beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 10m above ground level	t	1.55		
8	70 x 70 x 6mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level	t	0.28		
9	60 x 60 x 5mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level	t	0.13		
<u>ROOF STRUCTURE TO ENTRANCE OF BLOCK C</u>					
<u>Welded beams including, gusset and connection plates and L-section cleats bolted to concrete</u>					
10	200 x 200 x 6mm Square hollow section column including base plates, connectors, etc.	t	2.15		
11	203 x 133 x 25kg/m I-Section beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 6m above ground level	t	1.23		
12	254 x 146 x 31kg/m I-Section beam including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 6m above ground level	t	0.84		
13	305 x 165 x 40kg/m I-Section beam including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 6m above ground level	t	1.09		
<u>ROOF STRUCTURE BLOCK G</u>					
Carried to Collection				R	
Section No. 2 Bill No. 10 Structural Steelwork					

<u>Welded beams including, gusset and connection plates and L-section cleats bolted to concrete</u>					
14	800 x 210 x 92kg/m Castellated beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 6m above ground level	t	9.70		
15	534 x 171 x 45kg/m Castellated beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 6m above ground level	t	8.10		
16	305 x 102 x 25kg/m I-Section beam including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 6m above ground level	t	0.16		
<u>EXTERNAL AREA ROOF BLOCK G</u>					
<u>Welded beams including, gusset and connection plates and L-section cleats bolted to concrete</u>					
17	200 x 100 x 4mm Rectangular hollow section including fixing plates, connectors, etc. hoisted and fixed in position approximately 4m above ground level	t	5.60		
18	193 x 6mm Diameter circular hollow section bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.25		
<u>ROOF STRUCTURE TO ENTRANCE OF BLOCK G</u>					
<u>Welded beams including, gusset and connection plates and L-section cleats bolted to concrete</u>					
19	203 x 133 x 25kg/m I-Section beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 6m above ground level	t	1.43		
20	200 x 200 x 4,5mm Square hollow section column including base plates, connectors, etc.	t	3.48		
<u>ROOF STRUCTURE BLOCK H</u>					
Carried to Collection				R	
Section No. 2 Bill No. 10 Structural Steelwork					

	<u>Welded beams in single lengths with flat section gusset, top, bearer and connection plates:</u>				
21	365 x 171 x 45kg/m I-Section beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 4m above ground level	t	3.96		
22	254 x 146 x 31kg/m I-Section beam in tapered roof truss ends including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level	t	0.46		
	<u>ROOF STRUCTURE BLOCK M</u>				
	<u>Welded beams in single lengths with flat section gusset, top, bearer and connection plates:</u>				
23	IPE 200 beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 6m above ground level	t	1.68		
24	IPE 160 beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 4m above ground level	t	0.53		
25	305 x 165 x 40kg/m I-Section roof beam including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 6m above ground level	t	0.44		
26	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.11		
27	60 x 60 x 4mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.54		
28	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.03		
	<u>ROOF STRUCTURE BLOCK N</u>				
	Carried to Collection			R	
	Section No. 2				
	Bill No. 10				
	Structural Steelwork				

<u>Welded beams in single lengths with flat section gusset, top, bearer and connection plates:</u>					
29	305 x 165 x 40kg/m I-Section roof beam including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 10m above ground level	t	0.18		
30	203 x 133 x 25kg/m I-Section roof beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 6m above ground level	t	0.54		
31	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.03		
32	60 x 60 x 4mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.17		
33	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.01		
<u>STEEL TRUSSES ETC</u>					
<u>ROOF STRUCTURE BLOCK B</u>					
<u>The following in 8 trusses overall size 19,850m long x 1,853m high</u>					
<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
34	IPE 200 beam in tapered roof truss ends including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.83		
35	100 x 100 x 10mm Square hollow section top cord including fixing plates, connectors, etc. hoisted and fixed in position approximately 4m above ground level	t	2.46		
Carried to Collection				R	
Section No. 2 Bill No. 10 Structural Steelwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

36	90 x 90 x 8mm L-Section bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.79		
37	80 x 80 x 6mm L-Section verticals members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.37		
38	70 x 70 x 6mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	2.28		
39	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.20		
40	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.84		
<u>The following in 4 trusses overall size 11,131m long x 0,965m high</u>					
<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
41	IPE 200 beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 4m above ground level	t	0.35		
42	80 x 80 x 6mm L-Section top cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.34		
43	70 x 70 x 6mm L-Section bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.37		
Carried to Collection				R	
Section No. 2 Bill No. 10 Structural Steelwork					

44	70 x 70 x 6mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.02		
45	60 x 60 x 6mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.49		
46	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.27		
47	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.09		
<u>ROOF STRUCTURE BLOCK C</u>					
<u>The following in 1 truss overall size 16,745m long x 1,50m high and 2 trusses overall size 15,339m long x 1,34m high</u>					
<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
48	365 x 171 x 45kg/m I-Section roof beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 4m above ground level	t	2.46		
49	IPE 200 beam in tapered roof truss ends including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	16.05		
50	90 x 90 x 6mm L-Section top cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.73		
51	80 x 80 x 6mm L-Section top and bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.00		
Carried to Collection				R	
Section No. 2					
Bill No. 10					
Structural Steelwork					

52	70 x 70 x 6mm L-Section bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.31		
53	70 x 70 x 6mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.67		
54	70 x 70 x 6mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.19		
55	60 x 60 x 6mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.57		
56	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.23		
57	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.45		
<u>ROOF STRUCTURE BLOCK D</u>					
<u>The following in 3 trusses overall size 21,05m long x 1,99m high</u>					
<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
58	IPE 200 beam in tapered roof truss ends including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.44		
59	120 x 120 x 12mm L-Section top cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.43		
Carried to Collection				R	
Section No. 2					
Bill No. 10					
Structural Steelwork					

60	100 x 100 x 8mm L-section bottom cord including fixing plates, connectors, etc. hoisted and fixed in position approximately 4m above ground level	t	0.81		
61	70 x 70 x 8mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.33		
62	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.09		
63	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.25		
<u>The following in 5 trusses overall size 18,70m long x 1,70m high</u>					
<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
64	100 x 100 x 10mm L-Section top cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.47		
65	90 x 90 x 8mm L-Section bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.07		
66	70 x 70 x 6mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.08		
67	70 x 70 x 7mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.71		
68	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.07		
Carried to Collection				R	
Section No. 2					
Bill No. 10					
Structural Steelwork					

69	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.19		
<u>ROOF STRUCTURE BLOCK E</u>					
<u>The following in 10 trusses overall size 22,18m long x 2,18m high</u>					
<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
70	IPE 200 beam in tapered roof truss ends including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.52		
71	120 x 120 x 12mm L-Section top cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	5.02		
72	100 x 100 x 8mm L-section bottom cord including fixing plates, connectors, etc. hoisted and fixed in position approximately 4m above ground level	t	2.84		
73	70 x 70 x 8mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	4.53		
74	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.11		
75	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.04		
<u>The following in 1 truss overall size 16,96m long x 2,18m high</u>					
Carried to Collection				R	
Section No. 2 Bill No. 10 Structural Steelwork					

<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
76	100 x 100 x 8mm L-Section top cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.22		
77	90 x 90 x 8mm L-Section bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.19		
78	70 x 70 x 6mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.10		
79	70 x 70 x 8mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.39		
80	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.11		
81	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.13		
<u>ROOF STRUCTURE BLOCK F</u>					
<u>The following in 6 trusses overall size 21,07m long x 2,13m high</u>					
<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
82	IPE 200 beam in tapered roof truss ends including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.84		
Carried to Collection				R	
Section No. 2					
Bill No. 10					
Structural Steelwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

83	120 x 120 x 12mm L-Section top cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	2.87		
84	100 x 100 x 8mm L-Section top and bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.62		
85	70 x 70 x 8mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	2.64		
86	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.13		
87	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.87		
<u>The following in 9 trusses overall size 17,366m long x 1,960m high</u>					
<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
88	100 x 100 x 8mm L-Section bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	2.00		
89	90 x 90 x 8mm L-Section top cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.79		
90	70 x 70 x 6mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.85		
Carried to Collection				R	
Section No. 2					
Bill No. 10					
Structural Steelwork					

91	70 x 70 x 8mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	3.04		
92	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.10		
93	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.09		
<u>ROOF STRUCTURE BLOCK G</u>					
<u>The following in 1 truss overall size 25,20m long x 1,50m high</u>					
<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
94	254 x 146 x 31kg/m I section top and bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 6m above ground level	t	1.62		
95	70 x 70 x 8mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.53		
96	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.28		
<u>ROOF STRUCTURE BLOCK H</u>					
<u>The following in 1 truss overall size 15,07m long x 1,50m high</u>					
Carried to Collection				R	
Section No. 2 Bill No. 10 Structural Steelwork					

<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
97	254 x 146 x 31kg/m I-Section beam in tapered roof truss ends including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level	t	0.75		
98	80 x 80 x 8mm L-Section top cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.53		
99	70 x 70 x 6mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.90		
100	70 x 70 x 8mm L-Section bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.32		
101	60 x 60 x 6mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.57		
102	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.16		
103	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.87		
<u>PURLINS, GIRTS, BRACING, ETC</u>					
<u>Purlins and girts bolted to steel</u>					
104	125 x 50 x 20 x 2,0 mm Cold formed lipped channel section purlins	t	3.84		
105	125 x 65 x 20 x 2,0 mm Cold formed lipped channel section purlins	t	34.49		
Carried to Collection				R	
Section No. 2 Bill No. 10 Structural Steelwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

106	125 x 65 x 20 x 2,0 mm Cold formed lipped channel section purlins circular on plan	t	0.28			
107	150 x 65 x 20 x 2,0mm Cold formed lipped channel section purlins	t	1.88			
108	150 x 65 x 20 x 2,0mm Cold formed lipped channel section purlins circular on plan	t	0.12			
109	150 x 75 x 20 x 2,0 mm Cold formed lipped channel section purlins	t	1.07			
110	175 x 75 x 20 x 2,0 mm Cold formed lipped channel section purlins	t	1.17			
111	175 x 75 x 20 x 2,5mm Cold formed lipped channel section purlins	t	0.27			
112	175 x 75 x 20 x 2,5mm Cold formed lipped channel section purlins circular on plan	t	0.14			
113	200 x 75 x 20 x 2,5mm Cold formed lipped channel section purlins	t	0.30			
114	200 x 200 x 4mm Square hollow section purlins	t	0.91			
115	200 x 200 x 4mm Square hollow section purlins circular on plan	t	0.87			
	<u>3mm Thick hot dipped galvanised sheet iron eaves gutters and accessories</u>					
116	3mm Thick galvanised steel gutter 823mm girth 5 times bent fixed and including brackets to falls to steel purlins	m	40			
117	3mm Thick galvanised steel gutter 832mm girth 5 times bent circular on plan fixed and including brackets to falls to steel purlins	m	26			
118	Extra for stopped end	No	2			
119	Extra for 100mm diameter outlet for downpipe	No	14			
	Carried to Collection				R	
	Section No. 2 Bill No. 10 Structural Steelwork					

120	Extra over 200 x 100mm square hollow section steel column used as rainwater downpipe to form outlet inside column, outlet consisting of plate size 211mm long x 100mm wide welded raking inside column and forming opening on one side of column size 200mm high x 100mm wide	No	14		
	<u>STEEL COLUMNS, BEAMS, ETC.</u>				
	<u>Welded columns with and including flat section base, top, bearer, gusset and connection plates etc.</u>				
121	75 x 75 x 5mm Square hollow section column including base plates, connectors, etc.	t	0.06		
122	75 x 75 x 6mm Square hollow section column including base plates, connectors, etc.	t	0.06		
123	100 x 100 x 4mm Square hollow section column including base plates, connectors, etc.	t	0.46		
124	100 x 100 x 4,5mm Square hollow section column including base plates, connectors, etc.	t	0.50		
125	200 x 200 x 4,5mm Square hollow section column including base plates, connectors, etc. (No. 3)	t	2.48		
126	120 x 120 x 4mm Square hollow section column including base plates, connectors, etc.	t	0.09		
127	120 x 120 x 6mm Square hollow section column including base plates, connectors, etc.	t	0.16		
128	120 x 120 x 10mm L section bracing to side of beams including base plates, connectors, etc.	t	1.08		
129	150 x 150 x 4mm Square hollow section column including base plates, connectors, etc.	t	2.20		
130	150 x 150 x 5mm Square hollow section column including base plates, connectors, etc.	t	0.90		
131	175 x 175 x 4mm Square hollow section column including base plates, connectors, etc.	t	0.91		
	Carried to Collection			R	
	Section No. 2 Bill No. 10 Structural Steelwork				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

132	200 x 200 x 4,5mm L section bracing to side of beams including base plates, connectors, etc.	†	0.81		
133	152 x 152 x 23kg/m H section column including base plates, connectors, etc.	†	0.17		
134	Composite column consisting of 406 x 6,0mm circular hollow section 2825mm long bottom section, 273 x 6,0mm circular hollow section 2180mm long middle section and 193 x 6,6mm circular hollow section 1170mm long top section filled with 30MPA concrete (elsewhere) no. 3	†	0.91		
Carried to Collection					
Section No. 2 Bill No. 10 Structural Steelwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

Section No. 2			
Bill No. 10			
Structural Steelwork			
<u>COLLECTION</u>			
	Page No		Amount
Total Brought Forward from Page No.	264		
	265		
	266		
	267		
	268		
	269		
	270		
	271		
	272		
	273		
	274		
	275		
	276		
	277		
	278		
	279		
	280		
	281		
	282		
Carried Forward to Summary of Section No. 2			
Section No. 2			
Bill No. 10			
Structural Steelwork			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 10</u></p> <p><u>METALWORK</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p><u>SUNDRY STAINLESS STEELWORK TYPE 304 (18/8)</u></p> <p><u>Bumper rails</u></p> <p>1 Purpose made 50mm diameter stainless steel bumper rail x 1,5mm thick with 12mm diameter stainless steel rod fixed into wall and protruding 55mm with 50mm diameter dome wall flange (BUM009) & (BUM012) m 109</p> <p>2 Purpose made 50mm diameter stainless steel end caps to bumper rail No 80</p> <p><u>STEEL HANDRAILS, BALUSTRADES, ETC.</u></p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 11 Metalwork</p>			
			R	

	<u>The following in mild steel electroplated finish balustrade and hand railing. Vertical posts epoxy grouted 100mm deep into concrete slab including all necessary core drilling, epoxy grouting, plastic spacer plugs, mild steel cover plates, etc.; hoisting and fixing in position complete, all to comply with load requirement for Building Occupation Category and route type as required in SANS 10160</u>				
3	75 x 50mm Mild steel rectangular section continuous raking handrails welded to 12mm diameter mild steel rod and ends epoxy grouted 150mm deep into brick or concrete walls, with and including 60mm diameter x 1.5mm thick x 10mm high mild steel dome wall flange fixed to concrete or brick walls	m	49		
4	Extra over for closed end	No	18		
5	Extra over for ramp or knee	No	14		
6	Extra over for bend	No	8		
7	1100mm High horizontal balustrade comprising 50 x 35mm mild steel rectangular stanchions with 38 x 38mm mild steel square stanchion pin at 1500mm centres and epoxy grouted 100mm deep into concrete slab, 75 x 50mm mild steel rectangular section top rail with 910mm high flat Clearvu panel framed with 40 x 40mm mild steel angle section fixed to stanchions, 5mm cover plate, connector plates, rawl bolts, nuts, spacers, etc. As per attached drawings HDG 040-001, HDG 040-003	m	63		
8	1100mm High horizontal balustrade raking comprising 50 x 35mm mild steel rectangular stanchions with 38 x 38mm mild steel square stanchion pin at 1500mm centres and epoxy grouted 100mm deep into concrete slab, 75 x 50mm mild steel rectangular section top rail with 910mm high flat Clearvu panel framed with 40 x 40mm mild steel angle section fixed to stanchions, 5mm cover plate, connector plates, rawl bolts, nuts, spacers, etc. As per attached drawings HDG 040-001, HDG 040-003	m	20		
Carried to Collection				R	
Section No. 2 Bill No. 11 Metalwork					

9	Extra over for closed end	No	22	
10	Extra over for ramp or knee	No	12	
<u>PRESSED STEEL DOOR FRAMES</u> <u>Galvanised mild steel frames by Quirk Agencies</u> <u>(043-726 3994)</u> <u>1.6mm Standard galvanised mild steel door frames</u> <u>with double rebate suitable for 110mm walls and to</u> <u>receive hinges (elsewhere measured)</u>				
11	Frame for door, size 813 x 2032mm high Dr_BZ	No	1	
12	Frame for one and a half door, size 1350 x 2032mm high Dr_AA	No	1	
13	Frame for double door, size 986 x 1738mm high Dr_D	No	27	
<u>1.6mm Standard galvanised mild steel door frames</u> <u>with double rebate suitable for 220mm walls and to</u> <u>receive hinges (elsewhere measured)</u>				
14	Frame for door, size 965 x 2032mm high Dr_Z	No	6	
15	Frame for one and a half door, size 1350 x 2032mm high Dr_AA	No	2	
16	Frame for double door, size 986 x 1738mm high Dr_D	No	9	
17	Frame for double door, size 1295 x 2032mm high Dr_CA	No	16	
18	Frame for double door, size 1350 x 2032mm high Dr_CJ	No	1	
19	Frame for double door, size 1486 x 2032mm high Dr_EJ	No	1	
20	Frame for double door, size 1511 x 2032mm high Dr_DB	No	16	
<p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Bill No. 11 Metalwork</p>				<p style="text-align: center;">R</p>

	<u>1.6mm Purpose made chamfered galvanised mild steel frame with mitred top corners, jointed seams welded supplied and corner stiffeners in the reveals on the inside and to receive hinges (elsewhere measured) suitable for 110mm walls</u>			
21	Frame for door, size 813 x 1738mm high Dr_EP	No	1	
22	Frame for door, size 813 x 2032mm high Dr_V	No	67	
23	Frame for door, size 965 x 2032mm high Dr_A	No	5	
24	Frame for door, size 965 x 2032mm high Dr_Z	No	2	
	<u>1.6mm Purpose made chamfered galvanised mild steel frame with mitred top corners, jointed seams welded supplied and corner stiffeners in the reveals on the inside and to receive hinges (elsewhere measured) suitable for 220mm walls</u>			
25	Frame for door, size 813 x 2032mm high Dr_V	No	29	
26	Frame for door, size 965 x 2032mm high Dr_A	No	9	
27	Frame for door, size 965 x 2032mm high Dr_Z	No	8	
28	Frame for door, size 1350 x 2032mm high Dr_B	No	5	
	<u>2mm Purpose made chamfered galvanised mild steel frame with mitred top corners, jointed seams welded supplied and corner stiffeners in the reveals on the inside and to receive hinges (elsewhere measured) suitable for 110mm walls</u>			
29	Frame for door, size 1000 x 2065mm high Dr_X	No	1	
	<u>2mm Purpose made chamfered galvanised mild steel frame with mitred top corners, jointed seams welded supplied and corner stiffeners in the reveals on the inside and to receive hinges (elsewhere measured) suitable for 220mm walls</u>			
30	Frame for door, size 1000 x 2065mm high Dr_X	No	10	
	<u>RECORDS ROOM & STRONG ROOM DOORS</u>			
	Carried to Collection			R
	Section No. 2 Bill No. 11 Metalwork			

	<p><u>Door and frame supplied by Mutual Safes (012-803 6051)</u></p> <p><u>Custom made Mutual Austen Safes DS1 records room door and frame with 7-lever security keylock finished in rust proof undercoat</u></p> <p>31 Records room frame and door, door size 900 x 1860mm high Dr_G1</p> <p><u>Custom made Mutual Austen Safes DS50/2SABS Category 2 (light Duty) strong room door and frame with 7-lever security keylock, finished in rust proof undercoat</u></p> <p>32 Strong room frame and door, door size 900 x 1860mm high Dr_G2</p> <p><u>STEEL ROLLER SHUTTERS ETC</u></p> <p><u>Approved epoxy powder coated roller shutters enclosed in 1,6mm thick sheet iron cover box fixed to brickwork or concrete</u></p> <p>33 Roll Up Serranda Series 2000 or equal and approved, polyester powder coated (Interpon D1025 matt finish powder coating) galvanised mild steel push-up 75 x 1,0mm thick endlocked slatted curtain roller shutter for opening 1800 x 2125mm high with standard bottom rail, 75mm wide guides, extruded aluminium T-bar with rubber seal, powder coated ancillary components including 4,5mm thick end plates, guide rails, slide bolt and guide lock, canopy cover and purpose made polyester powder coated frame fixed to concrete jambs and structural steel beam RSPU001</p>	No	3		
	Carried to Collection			R	
	Section No. 2 Bill No. 11 Metalwork				

34	Roll Up Serranda Series 2000 or equal and approved, polyester powder coated (Interpon D1025 matt finish powder coating) galvanised mild steel push-up 75 x 1,0mm thick endlocked slatted curtain roller shutter for opening 3000 x 2125mm high with standard bottom rail, 75mm wide guides, extruded aluminium T-bar with rubber seal, powder coated ancillary components including 4,5mm thick end plates, guide rails, slide bolt and guide lock, canopy cover and purpose made polyester powder coated frame fixed to concrete jambs and structural steel beam RSPU002	No	3		
35	Roll Up Serranda Series 2000 or equal and approved, polyester powder coated (Interpon D1025 matt finish powder coating) galvanised mild steel crank operated 75 x 1,0mm thick endlocked slatted curtain roller shutter for opening 2500 x 3315mm high with overhead box 285mm high, 75mm wide guides, extruded aluminium T-bar with rubber seal, powder coated ancillary components including 4,5mm thick end plates, guide rails, etc., slide bolt and guide lock, canopy cover and purpose made polyester powder coated frame fixed to concrete jambs and structural steel beam RSCO001	No	1		
36	Roll Up Serranda Series 2000 or equal and approved, polyester powder coated (Interpon D1025 matt finish powder coating) galvanised mild steel crank operated 75 x 1,0mm thick end locked slatted curtain roller shutter for opening 2500 x 3315mm high with overhead box 285mm high, standard bottom rail with inward opening wicket gate size 750 x 2125mm high, 75mm wide guides, extruded aluminium T-bar with rubber seal, powder coated ancillary components including 4,5mm thick end plates, guide rails, etc., slide bolt and guide lock, canopy cover and purpose made polyester powder coated frame fixed to concrete jambs and structural steel beam RSCO-W001	No	5		
Carried to Collection					R
Section No. 2 Bill No. 11 Metalwork					

37	Roll Up Serranda Series 2000 or equal and approved, polyester powder coated (Interpon D1025 matt finish powder coating) galvanised mild steel crank operated 75 x 1,0mm thick end locked slatted curtain roller shutter for opening 3000 x 3315mm high with overhead box 285mm high, standard bottom rail with inward opening wicket gate size 750 x 2125mm high, 75mm wide guides, extruded aluminium T-bar with rubber seal, powder coated ancillary components including 4,5mm thick end plates, guide rails, etc., slide bolt and guide lock, canopy cover and purpose made polyester powder coated frame fixed to concrete jambs and structural steel beam RSCO-W002	No	1		
38	Roll Up Serranda Series 2000 or equal and approved, polyester powder coated (Interpon D1025 matt finish powder coating) galvanised mild steel electrically operated 75 x 1,0mm thick endlocked slatted curtain roller shutter with lockable push button control for opening 3000 x 4080mm high with standard bottom rail, 75mm wide guides, extruded aluminium T-bar with rubber seal, powder coated ancillary components including 4,5mm thick end plates, guide rails, no lock, canopy cover and purpose made polyester powder coated frame fixed to concrete jambs and structural steel beam, the shutter controlled by security mounted key switch 3-phase, to be operated with and including a motor connected to 3-phase power supply as per manufacturers specifications RSEO001	No	1		
	<u>TURNSTILES</u>				
39	Turnstar Prestige Trident single waist height mechanical uni-directional turnstile overall by Turnstar Systems (011 786 1633) or equal and approved size 870 x 615 x 1090mm high 304-grade brushed stainless steel cabinet with Rotalok® rotation locking mechanism or equal and approved and Rotarun® perpetual base bearing or equal and approved, bolted to concrete base with four M12 x 75mm countersunk anchor bolts	No	17		
	Carried to Collection			R	
	Section No. 2 Bill No. 11 Metalwork				

40	Titan 4 single 4 arm high security turnstile by Turnstar Systems (011 786 1633) or equal and approved single full height mechanical uni-directional revolving turnstile, overall size 1430 x 2250mm high, hot dipped galvanised mild steel finish with 50mm diameter tube arm and "Rotalok" or equal and approved perpetual base bearing, with and including 7No. M12 x 75mm bolts fixed to concrete as per manufacturers specification	No	1		
41	Automatic flow system Seedgate entrance and paraplegic gate by Turnstar Systems (011 786 1633) or equal and approved, gate for paraplegic 900mm wide, pedestal of modern and sleek appearance manufactured of stainless steel, pedestal to panel of 10mm thick black toughened glass 1000mm high with logo on front of pedestals indicating allowed direction of passage flow, sensor with cabinet assure safety and control passage flow, audible alarm sound when transgression occurs including planetary geared brushless motor, PLC controlled and all necessary to provide quiet, fast and safe operation installed strictly to manufacturers specification	No	3		
42	Velocity Integrated Articulated Automatic Industrial Vehicle Barrier with Swiftdrive and Velocity Raptor Tyre Spike by Turnstar Systems (011 786 1633) or equal and approved, barrier arm weight 1,45kg/m barrier arm 3m long, manual over ride secure internal easy-pull lever arm, collision detection, dual channel safety loop detector and input for any external sensor safety control, integrates with all access control, ticketing, and time attendance systems, triggered through a normally open dry contact, free exit loop feature built-in standard, open and closed relay outputs, with 316 grade stainless steel cabinet and barrier arm accessories including articulated arm kit (folding arm kit) for low ceilings (fitted under the barrier arm for maximum height clearance, car and truck goosenecks with optional cowl, all installed strictly to manufacturers specification	No	2		
Carried to Collection				R	
Section No. 2 Bill No. 11 Metalwork					

<u>ELECTROPLATED AND EPOXY COATED CAT LADDERS</u>					
43	Welded cat ladder 500mm wide formed of 38mm diameter stringer, 4785mm long on one side with circular bend across top edge with internal radius of 270mm and 1131mm long on other side, with 16mm diameter rebar x 500mm wide pipe rungs, with longitudinal strips on top to ensure slip free surface, drilled and welded approximately 300mm centres to stringers, with and including 700mm diameter circular shaped cage formed of 3No. x 25 x 5mm mild steel flat vertical bars 2785mm long, 25 x 5mm mild steel flat horizontal circular bars welded to top and sides of cat ladder at maximum 700mm centres, including 150 x 50 x 5mm mild steel base plate connection bolted to brickwork or concrete including all necessary core drilling, epoxy grouting, chemical anchor bolts, holding down bolts, etc.	No	3		
<u>SUNDRY GALVANIZED STEELWORK</u>					
<u>Bearers to brick linings, lintels, etc.</u>					
44	25mm x 25mm x 3mm Thick angle section cornice riveted to metal ceiling and bolted to brickwork with and including M12 x 100mm long chemical anchor bolts at 300mm centres	m	927		
45	50 x 50 x 5 L section galvanised mild steel angle with dove tail lugs at 300mm centres cast into concrete slab	m	57		
46	100 x 100 x 10mm Angle section bearers bolted to concrete	kg	102		
<u>The following mild steel elements in roof over hang, fascia, barge and apex flashing fixing details</u>					
47	50 x 8mm Thick flat bar fixed to under side of purlins	m	3,741		
48	50 x 5mm Thick flat bar 160mm long welded to flat bar at 500mm centres	No	3,724		
49	80 x 80 x 6mm Angle section welded to beam	m	3,327		
Carried to Collection				R	
Section No. 2 Bill No. 11 Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

50	80 x 80 x 6mm Angle section welded to beam circular on plan	m	302			
51	80 x 80 x 6mm Angle section bracket 100mm long welded to steel beam	No	2,852			
52	40 x 40 x 0,8mm Galvanised bracket to fix barge flashing to roof sheeting	m	489			
53	100 x 100mm Galvanised mild steel angle welded to inside of barge purlin to create a bracket for fixing to apex flashing plate	No	62			
54	100 x 100 x 6mm Galvanised mild steel plate welded to inside of apex flashing to be fixed to bracket of barge flashing	No	62			
<u>STANDARD MILD STEEL PANELS</u>						
<u>Purpose made galvanised mild steel rectangular tube frame welded into profile with timber slates fixed to inside of frame by Quirk Agencies (043 726 3994) or equal and approved as per attached drawings P2A-HDG-070-MSDP-001 - 004</u>						
55	Panel overall size 5723mm wide x 3825mm high in two panels type MSDP-001	No	1			
56	Panel overall size 6366mm wide x 3825mm high in two panels type MSDP-002	No	1			
57	Panel overall size 4940mm wide x 2800mm high in two panels type MSDP-003	No	1			
58	Panel overall size 2000mm wide x 3825mm high in two panels type MSDP-004	No	1			
<u>WASHING LINES</u>						
Carried to Collection						
Section No. 2 Bill No. 11 Metalwork				R		

	<u>Purpose made washing line complete with five standard clothes lines tied through M8 eye bolts and secured with M5 U-clamps on two 50mm diameter round hollow section posts 2300mm long with 50mm diameter hollow section horizontal piece welded to top of post 500mm long, posts cast into 500 x 500 x 500mm 15MPa concrete bases including excavations, base plates to posts, etc., all elements to be Interpon 600 a series of polyester based powder coatings for exterior environment single coat finish</u>			
59	Washing line 6900mm long	No	3	
	<u>SUNDRY ALUMINIUM WORKS</u>			
	<u>Aluminium Angle</u>			
60	20 x 80mm Unequal Aluminium angle mechanically fixed with silicone to edge of concrete upstand beam at waterproofing edge	m	1,156	
61	20 x 80mm Unequal Aluminium angle mechanically fixed with silicone to edge of concrete upstand beam at waterproofing edge circular on plan	m	6	
	<u>ALUMINIUM DECORATIVE ROOF COVERING</u>			
	<u>3mm Aluminium panel with Maya Pattern by Tilt Screens (021 556 9229) or equal and approved in roof covering consisting of various panels to form part straight and circular roof fixed to aluminium and mild steel sub-frame as per suppliers details, powder coated, installed strictly to manufacturers specifications as per attached drawing HDG-070-ALACP-P023</u>			
62	Sheeting laid to roof not exceeding 10 degrees	m2	355	
63	Circular cutting	m	56	
	<u>ALUMINIUM SUN LOUVRES</u>			
	Carried to Collection			R
	Section No. 2 Bill No. 11 Metalwork			

	<u>2mm Aluminium panel with Maya Pattern by Tilt Screens (021 556 9229) or equal and approved fixed to aluminium and mild steel sub-frame as per suppliers details and Structural Engineers approval, powder coated, installed strictly to manufacturers specifications</u>				
64	Box framed sun louvre panel overall size 17,39m long x 1,30m wide consisting of two horizontal panels each size 17,39m long x 1,30m wide and two vertical panels each size 1,30m wide x 3,39m high fixed to sub frame as per attached drawing HDG-070-ALACP-P001	No	1		
65	Box framed sun louvre panel overall size 26,19m long x 1,30m wide consisting of two horizontal panels each size 26,19m long x 1,30m wide and two vertical panels each size 1,30m wide x 3,39m high fixed to sub frame as per attached drawing HDG-070-ALACP-P002	No	1		
66	L-shaped framed sun louvre panel overall size 9,50m long x 1,15m wide consisting of one horizontal panel size 9,5m long x 1,15m wide and one vertical panel size 1,15m wide x 3,16m high fixed to sub frame as per attached drawing HDG-070-ALACP-P003	No	1		
67	L-shaped framed sun louvre panel overall size 8,46m long x 1,15m wide consisting of one horizontal panel size 8,46m long x 1,15m wide and one vertical panel size 1,15m wide x 3,16m high fixed to sub frame as per attached drawing HDG-070-ALACP-P004	No	1		
68	L-shaped framed sun louvre panel overall size 16,45m long x 1,15m wide consisting of one horizontal panel size 16,45m long x 1,15m wide and one vertical panel size 1,15m wide x 3,16m high fixed to sub frame as per attached drawing HDG-070-ALACP-P005	No	1		
Carried to Collection					R
Section No. 2 Bill No. 11 Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

69	L-shaped framed sun louvre panel overall size 7,10m long x 1,87m high consisting of one vertical panels size 7,10m long x 1,87m high and one vertical panels size 0,51m long x 1,87m high fixed to sub frame as per attached drawing HDG-070-ALACP-P006	No	1		
70	L-shaped framed sun louvre panel overall size 23,15m long x 1,15m wide consisting of one horizontal panels size 12,82m long x 1,15m wide and one vertical panels size 10,33m long x 1,15m wide fixed to sub frame as per attached drawing HDG-070-ALACP-P007	No	2		
71	L-shaped framed sun louvre panel overall size 12,87m long x 1,15m wide consisting of one horizontal panels size 6,64m long x 1,15m wide and one vertical panels size 5,03m long x 1,15m wide fixed to sub frame as per attached drawing HDG-070-ALACP-P008	No	1		
72	U-shaped framed sun louvre panel overall size 16,31m long x 2,98m high consisting of one horizontal panel size 16,31m long x 2,98m high and two vertical panels each size 0,48m long x 2,98m high fixed to sub frame as per attached drawing HDG-070-ALACP-P009	No	1		
73	Framed sun louvre panel overall size 4,09m long x 3,87m high fixed to sub frame as per attached drawing HDG-070-ALACP-P010	No	1		
74	Framed sun louvre panel overall size 3,87m long x 3,87m high fixed to sub frame as per attached drawing HDG-070-ALACP-P011	No	1		
75	Box framed sun louvre panel overall size 10,57m long x 1,15m wide consisting of two horizontal panels each size 10,57m long x 1,15m wide and two vertical panels each size 1,15m wide x 4,53m high fixed to sub frame as per attached drawing HDG-070-ALACP-P012	No	1		
76	Framed sun louvre panel overall size 9,60m wide x 7,75m high fixed to sub frame as per attached drawing HDG-070-ALACP-P013	No	1		
Carried to Collection				R	
Section No. 2					
Bill No. 11					
Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

77	Box framed sun louvre panel overall size 17,87m long x 1,15m wide x 7,80m high consisting of one horizontal panel size 17,87m long x 1,15m wide, one vertical panel size 4,53m high x 1,15m wide, one horizontal panel size 13,14m long x 1,15m wide, one vertical panel size 5,37m high x 1,15m wide, one horizontal panel size 4,73m long x 1,15m wide and one vertical panel size 7,90m high x 1,15m wide fixed to sub frame as per attached drawing HDG-070-ALACP-P014	No	1		
78	Box framed sun louvre panel overall size 3,21m long x 1,15m wide consisting of two horizontal panels each size 3,21m long x 1,15m wide and two vertical panels each size 1,15m wide x 7,90m high fixed to sub frame as per attached drawing HDG-070-ALACP-P015	No	1		
79	Box L-shaped framed sun louvre panel overall size 21,62m long x 1,15m wide consisting of two horizontal panels each size 16,18m long x 1,15m wide, two vertical panels each size 4,53m high x 1,15m wide and two horizontal panels each size 4,23m long x 1,15m wide fixed to sub frame as per attached drawing HDG-070-ALACP-P016	No	1		
80	Framed sun louvre panel overall size 4,79m wide x 3,91m high fixed to sub frame as per attached drawing HDG-070-ALACP-P017	No	1		
81	Framed sun louvre panel overall size 4,76m wide x 3,91m high fixed to sub frame as per attached drawing HDG-070-ALACP-P018	No	1		
82	Framed sun louvre panel overall size 23,24m wide x 3,40m high fixed to sub frame as per attached drawing HDG-070-ALACP-P019	No	1		
83	Framed sun louvre panel overall size 7,69m wide x 3,40m high fixed to sub frame as per attached drawing HDG-070-ALACP-P020	No	1		
84	Framed sun louvre panel overall size 12,98m wide x 2,98m high fixed to sub frame as per attached drawing HDG-070-ALACP-P021	No	1		
<p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Bill No. 11 Metalwork</p>				R	

85	Framed sun louvre panel overall size 7,66m wide x 3,40m high fixed to sub frame as per attached drawing HDG-070-ALACP-P022	No	1		
86	Framed sun louvre panel overall size 1,105m wide x 3,87m high fixed to sub frame with single door size 0,945m wide x 2,17m high as per attached drawing HDG-070-ALACP-S001	No	1		
87	Framed sun louvre panel overall size 1.1059m wide x 3,87m high fixed to sub frame with single door size 0,945m wide x 2,71m high as per attached drawing HDG-070-ALACP-S002	No	1		
<u>ALUMINIUM FAÇADE CLADDING</u>					
<u>Hunter Douglas Aluminium Façade Type 200F cladding of 200m wide panels or equal and approved, clamped onto stringers and screw clams creating a light weight cladding system made of stove enamelled aluminium 0,7mm thick with Luxacote paint finish (30 micron), panel lengths to a maximum of 6000mm with and including stringers, screw clamps 200F, panel splices, sealing rubbers, horizontal joint profiles, U-brackets, outside corner profiles, washer sets and additional stringer profiles installed strictly to manufacturers specifications</u>					
88	Cladding panels	m2	770		
89	Cladding panels in ceilings	m2	255		
<u>Lambdaboard</u>					
90	60mm Thick Lambdaboard fixed to steel structure to receive aluminium façade cladding (elsewhere measured)	m2	322		
Carried to Collection				R	
Section No. 2 Bill No. 11 Metalwork					

	<p><u>Hulabond Aluminium Composite Panel Cladding or equal and approved comprising of composite aluminium panels, consisting a 0,5mm thick aluminium alloy AA3004 facing sheet bonded to a polyethylene core, colour to Architects approval, PVDF Kynar 500 paint coating, fixed to and including aluminium sub structure with side surround toggled to captive nut rail fixed to sub structure with minimum fixing zone of 110mm, installed strictly to manufacturers specifications</u></p>				
91	Cladding panels	m2	91		
92	Cladding panels circular on plan	m2	99		
	<p><u>ALUMINIUM WINDOWS, DOORS, ETC</u></p> <p>Doors and windows shall comply with AAAMSA design criteria</p> <p>Glazing shall comply with SAGGA regulations. Glass shall be laminated safety glass SIG units with 12mm Air Gap manufactured according to the highest specification including AAAMSA, SAGGA, SABS 1191 and SABS 1263 part 1 and 3. All units are subjected to a Delta T-test and IG dew point test. Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings</p> <p>Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed</p> <p>For purpose made windows and doors, refer to drawings annexed to these bills of quantities</p>				
	Carried to Collection			R	
	Section No. 2				
	Bill No. 11				
	Metalwork				

	<p>The following certificates shall be provided prior to commencement of site work:</p> <ol style="list-style-type: none"> 1 A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product 2 A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively 3 A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process 4 A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked 5 A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years <p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Bill No. 11 Metalwork</p>				
			R		

	<p><u>Purpose made Aluminium frame as by Wispeco (011 389 0000) to suit required site specific wind loads.</u></p> <p><u>Aluminium Door Frame ALHSW (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete with wool piles all round to ensure dust proof seal, to suite hinges or overhead transom closer (elsewhere), with or without opening sections, with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u></p> <p><u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u></p> <p><u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved with tinted glazing</u></p>				
93	Door frame type HSW001 overall size 1720mm wide x 2380mm high with glazed side light size 600mm wide x 2380mm high and opening for door size 1120mm wide x 2380mm high	No	12		
94	Door frame type HSW002 overall size 1720mm wide x 2380mm high with glazed side light size 600mm wide x 2380mm high and opening for door size 1120mm wide x 2380mm high	No	15		
95	Door frame type HSW003 overall size 1686mm wide x 2380mm high with glazed side light size 583mm wide x 2380mm high and opening for door size 1103mm wide x 2380mm high	No	2		
96	Door frame type HSW004 overall size 4431mm wide x 2380mm high with four glazed side lights two size 820mm wide x 2380mm high and two size 835mm wide x 2380mm high and opening for door size 1120mm wide x 2380mm high	No	2		
Carried to Collection					R
Section No. 2 Bill No. 11 Metalwork					

97	Door frame type HSW005 overall size 4932mm wide x 2510mm high with four glazed side lights two size 972mm wide x 2510mm high and two size 942mm wide x 2510mm high and opening for door size 1120mm wide x 2510mm high	No	2		
98	Door frame type HSW006 overall size 8160mm wide x 2510mm high with five glazed side lights one size 1691mm wide x 2510mm high, two size 1661mm wide x 2510mm high, one size 1676mm wide x 2510mm high and one size 350mm wide x 2510mm high and opening for door size 1120mm wide x 2510mm high	No	2		
99	Door frame type HSW007 & HSW008 size 1050mm wide x 2125mm high	No	23		
<p><u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u></p> <p><u>Aluminium Curtain Wall Frame AL/CWP (Facade 60, with 160mm mullions, pending detail design by Specialist) in configuration as described, complete with heavy-duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u></p> <p><u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u></p> <p><u>Minimum 24.76mm (6.38mm/12mmAir Gap/6.38mm) NS PVB Laminated Safety Glass, for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u></p>					
100	Curtain wall panel type AL/CWP001 size 3698mm wide x 870mm high	No	3		
101	Curtain wall panel type AL/CWP002 size 2868mm wide x 870mm high	No	2		
Carried to Collection				R	
Section No. 2 Bill No. 11 Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

102	Curtain wall panel type AL/CWP003 size 600mm wide x 6210mm high	No	1			
103	Curtain wall panel type AL/CWP004 size 2000mm wide x 6120mm high	No	1			
104	Curtain wall panel type AL/CWP005 with horizontal section size 5410mm wide x 920mm high and vertical sections 1247mm wide x 3500mm high	No	1			
105	Curtain wall panel type AL/CWP006 size 5410mm wide x 5270mm high with five top hung sashes	No	1			
106	Curtain wall panel type AL/CWP007 with horizontal section size 4267mm wide x 2880mm high and vertical sections 2892mm wide x 4210mm high	No	1			
107	Curtain wall panel type AL/CWP008 size 3442mm wide x 2878mm high	No	1			
108	Curtain wall panel type AL/CWP009 size 4409mm wide x 2878mm high	No	1			
109	Curtain wall panel type AL/CWP010 size 1000mm wide x 3825mm high	No	1			
Carried to Collection					R	
Section No. 2 Bill No. 11 Metalwork						

	<p><u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u></p> <p><u>Purpose made aluminium Curtain Wall Frame AL/CWPDa (Facade 60, with 160mm mullions, pending detail design by Specialist) in configuration as described, complete with heavy-duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u></p> <p><u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u></p> <p><u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u></p>				
110	Curtain wall with double sliding door type AL/CWSDa001 overall size 5961mm wide x 8461mm high including automatic sliding door size 1473mm wide x 2085mm high (sliding mechanism to be approved by Architect)	No	1		
111	Curtain wall with double sliding door type AL/CWSDa002 overall size 6782mm wide x 8516mm high including automatic sliding door size 1344mm wide x 2085mm high (sliding mechanism to be approved by Architect)	No	1		
112	Curtain wall with double sliding door type AL/CWSDa003 overall size 4897mm wide x 6979mm high including automatic sliding door size 1860mm wide x 2426mm high (sliding mechanism to be approved by Architect)	No	1		
Carried to Collection					R
Section No. 2 Bill No. 11 Metalwork					

113	Curtain wall with double sliding door type AL/CWSDa004 overall size 4897mm wide x 6979mm high including automatic sliding door size 1860mm wide x 2425mm high (sliding mechanism to be approved by Architect)	No	1		
114	Curtain wall with double sliding door type AL/CWSDa005 overall size 5676mm wide x 7079mm high including automatic sliding door size 1860mm wide x 2425mm high (sliding mechanism to be approved by Architect)	No	1		
	<p><u>Purpose made frameless glazing panel windows, doors and shopfronts as by Hampson Interiors (031 569 5024) to suit required site specific wind loads.</u></p> <p><u>Purpose made but jointed glazing panels complete (AL/FGP-D) with aluminium rails, corrosion resistant hinges, glass connectors, PVC seats, etc in configurations as shown. Waterproof frame surround and joints with an approved soft seal.</u></p> <p><u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u></p> <p><u>Minimum 24.76mm (6.38mm/12mm Air gap/6.38mm) NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u></p>				
115	Frameless Glazing type AL/FGP-D001 size 8051mm wide x 2865mm high	No	1		
116	Frameless Glazing type AL/FGP-D002 size 1992mm wide x 2865mm high	No	1		
117	Frameless Glazing type AL/FGP-D003 size 2193mm wide x 2865mm high	No	1		
118	Frameless Glazing type AL/FGP-D004 size 8289mm wide x 2865mm high	No	1		
	Carried to Collection			R	
	Section No. 2 Bill No. 11 Metalwork				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

119	Frameless Glazing type AL/FGP-D005 size 4606mm wide x 2865mm high	No	1		
120	Frameless Glazing type AL/FGP-D013 size 4993mm wide x 850mm high	No	3		
121	Frameless Glazing type AL/FGP-D014 size 5038mm wide x 850mm high	No	1		
122	Raking frameless Glazing type AL/FGP-D006 overall size 3961mm wide x 953mm high one side with 3 degree fall to 863mm high on other side	No	1		
123	Raking frameless Glazing type AL/FGP-D007 overall size 4746mm wide x 1057mm high one side with 3 degree fall to 957mm high on other side	No	1		
124	Raking frameless Glazing type AL/FGP-D008 overall size 3788mm wide x 1141mm high one side with 3 degree fall to 1062mm high on other side	No	1		
125	Raking frameless Glazing type AL/FGP-D009 overall size 5589mm wide x 1287mm high one side with 3 degree fall to 1169mm high on other side	No	1		
126	Raking frameless Glazing type AL/FGP-D010 overall size 5507mm wide x 1405mm high one side with 3 degree fall to 1289mm high on other side	No	1		
127	Raking frameless Glazing type AL/FGP-D011 overall size 5507mm wide x 1524mm high one side with 3 degree fall to 1408mm high on other side	No	1		
128	Raking frameless Glazing type AL/FGP-D012 overall size 5468mm wide x 1642mm high one side with 3 degree fall to 1526mm high on other side	No	1		
129	Raking frameless Glazing type AL/FGP-D015 overall size 5370mm wide x 1317mm high one side with 3 degree fall to 1172mm high on other side	No	1		
130	Raking frameless Glazing type AL/FGP-D016 overall size 5364mm wide x 1467mm high one side with 3 degree fall to 1295mm high on other side	No	1		
Carried to Collection				R	
Section No. 2					
Bill No. 11					
Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

131	Raking frameless Glazing type AL/FGP-D017 overall size 5364mm wide x 1620mm high one side with 3 degree fall to 1474mm high on other side	No	1
132	Raking frameless Glazing type AL/FGP-D018 overall size 6804mm wide x 1004mm high one side with 3 degree fall to 850mm high on other side	No	1
133	Raking frameless Glazing type AL/FGP-D019 overall size 6804mm wide x 1165mm high one side with 3 degree fall to 1010mm high on other side	No	1
134	Raking frameless Glazing type AL/FGP-D020 overall size 5557mm wide x 1754mm high one side with 3 degree fall to 1647mm high on other side	No	1
135	Raking frameless Glazing type AL/FGP-D021 overall size 5769mm wide x 1820mm high one side with 3 degree fall to 1765mm high on other side	No	1
136	Raking frameless Glazing type AL/FGP-D022 overall size 5805mm wide x 1759mm high one side with 3 degree fall to 1646mm high on other side	No	1
Carried to Collection			
Section No. 2 Bill No. 11 Metalwork			

	<p><u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u></p> <p><u>Purpose made aluminium door and frame (AL/HD) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u></p> <p><u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u></p> <p><u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u></p>				
137	Hinged double door type ALHD002 size 1650mm wide x 2125mm high	No	3		
138	Hinged double door type ALHD003 size 1650mm wide x 2125mm high	No	1		
139	Hinged double door type ALHD005 size 1646mm wide x 2125mm	No	3		
140	Hinged double door with top and side lights type ALHD004 overall size 4678mm wide x 3910mm high with two double doors each size 1650mm wide x 2125mm high	No	2		
Carried to Collection					R
Section No. 2 Bill No. 11 Metalwork					

	<p><u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u></p> <p><u>Purpose made aluminium door and frame (AL/HD-D) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u></p> <p><u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u></p> <p><u>Minimum 24.76mm (6.38mm/12mm Air Gap/6.38mm) NS PVB Laminated Safety Glass, for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u></p>				
141	Hinged double door type ALHD-D005 size 1948mm wide x 2125mm high	No	1		
142	Hinged double door type ALHD-D007 size 1650mm wide x 2125mm high	No	1		
143	Hinged double door with top light type ALHD-D009 overall size 1650mm wide x 3315mm high with double door size 1650mm wide x 2085mm high	No	1		
144	Hinged double door with top and side lights type ALHD-D001 overall size 4678mm wide x 3825mm high with two double doors each size 1680mm wide x 2085mm high	No	1		
145	Hinged double door with top and side lights type ALHD-D002 overall size 4656mm wide x 3825mm high with two double doors each size 1680mm wide x 2085mm high	No	1		
Carried to Collection					R
Section No. 2 Bill No. 11 Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

146	Hinged double door with top and side lights type ALHD-D003 overall size 4688mm wide x 3910mm high with two double doors each size 1680mm wide x 2425mm high	No	1		
147	Hinged double door with top and side lights type ALHD-D004 overall size 4678mm wide x 3910mm high with two double doors each size 1680mm wide x 2425m high	No	1		
148	Hinged double door with top and side lights type ALHD-D006 overall size 2089mm wide x 3825mm high with double door size 1680mm wide x 2085mm high	No	1		
149	Hinged double door with top light type ALHD-D008 top light size 4467mm wide x 1190mm high and double door size 1635mm wide x 2125mm high	No	1		
Carried to Collection					
Section No. 2 Bill No. 11 Metalwork					R

	<p><u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u></p> <p><u>Purpose made aluminium door and frame (AL/HS) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u></p> <p><u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u></p> <p><u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u></p>				
150	Hinged single door type AL/HS001 size 1116mm wide x 2125mm high with one Hulabond or equal and approved panel in door leaf	No	1		
151	Hinged single door type AL/HS002 size 1116mm wide x 2125mm high	No	2		
152	Hinged single door type AL/HS006 size 1052mm wide x 2125mm high	No	1		
153	Hinged single door with top light type AL/HS003 overall size 1058mm wide x 3740mm wide with single door size 1058mm wide x 2125mm high	No	1		
154	Hinged single door with top light type AL/HS014 overall size 1000mm wide x 2465mm high with Hulabond or equal and approved panels in door leaf	No	2		
Carried to Collection					R
Section No. 2 Bill No. 11 Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

155	Hinged single door with top light type AL/HS015 overall size 1000mm wide x 2465mm high with single door size 1000mm wide x 2125mm high with one Hulabond or equal and approved panel in door leaf	No	2		
156	Hinged single door with top light type AL/HS016 overall size 1000mm wide x 2465mm high with single door size 1000mm wide x 2125mm high with one Hulabond or equal and approved panel in door leaf	No	2		
157	Hinged single door with top and side lights type AL/HS011 overall size 1914mm wide x 3400mm high with single door size 985mm wide x 2085mm high	No	3		
158	Hinged single door with top and side lights type AL/HS010 overall size 1987mm wide x 3400mm high with single door size 985mm wide x 2085mm high	No	1		
159	Hinged single door with top and side lights type AL/HS008 overall size 2811mm wide x 3060mm high with single door size 985mm wide x 2085mm high	No	1		
160	Hinged single door with top and side lights type AL/HS012 overall size 2818mm wide x 3060mm high with single door size 985mm wide x 2085mm high	No	1		
161	Hinged single door with top and side lights type AL/HS013 overall size 2811mm wide x 3060mm high with single door size 985mm wide x 2085mm high	No	1		
162	Hinged single door with top and side lights type AL/HS007 overall size 2811mm wide x 3400mm high with single door size 985mm wide x 2085mm high	No	2		
163	Hinged single door with top and side lights type AL/HS009 overall size 2818mm wide x 3400mm high with single door size 985mm wide x 2085mm high	No	2		
164	Hinged single door with top and side lights type AL/HS017 overall size 3382mm wide x 3060mm high with single door size 1005mm wide x 2085mm high	No	1		
Carried to Collection				R	
Section No. 2 Bill No. 11 Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

165	Hinged single door with top and side lights type AL/HS005 overall size 3577mm wide x 3400mm high, side light size 2592mm wide x 2295mm high with 859mm wide x 100mm high opening at bottom, top light size 985mm wide x 1275mm high with single door size 985mm wide x 2085mm high as per attached drawing P2A-hDG-070-ALHS005	No	1		
166	Hinged single door with top and side lights type AL/HS004 overall size 4011mm wide x 3400mm high, side light size 3027mm wide x 2295mm high with 1004mm wide x 100mm high opening at bottom, top light size 985mm wide x 1275mm high with single door size 985mm wide x 2085mm high as per attached drawing P2A-hDG-070-ALHS004	No	1		
Carried to Collection					R
Section No. 2 Bill No. 11 Metalwork					

	<p><u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u></p> <p><u>Purpose made aluminium door and frame (AL/HS-D) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u></p> <p><u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u></p> <p><u>Minimum 24.76mm (6.38mm/12mm Air Gap/6.38mm) NS PVB Laminated Safety Glass, for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u></p> <p><u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u></p>				
167	Hinged single door type AL/HS-D001 size 1054mm wide x 2465mm high	No	1		
168	Hinged single door with top light type AL/HS-D003 overall size 1020mm wide x 3315mm high with single door size 1020mm wide x 2125mm high	No	1		
169	Hinged single door with top light type AL/HS-D007 overall size 1054mm wide x 2465mm high with single door size 1054mm wide x 2125mm high	No	1		
170	Hinged single door with top light type AL/HS-D008 overall size 1054mm wide x 2465mm high with single door size 1054mm wide x 2125mm high with Hulabond panels in door	No	1		
Carried to Collection					R
Section No. 2					
Bill No. 11					
Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

171	Hinged single door with top light type AL/HS-D005 with top light size 2812mm wide x 3315mm high and single door size 1020mm wide x 2125mm high	No	1		
172	Hinged single door with top and side lights type AL/HS-D002 overall size 3900mm wide x 3825mm high with single door size 970mm wide x 2125mm high	No	1		
173	Hinged single door with top and side lights type AL/HS-D006 with horizontal top light size 3754mm wide x 1190mm high, vertical section size 1485mm wide x 1530mm high with top hung sash and single door size 1020mm wide x 2125mm high	No	1		
Carried to Collection					
Section No. 2 Bill No. 11 Metalwork					R

	<p><u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u></p> <p><u>Purpose made aluminium sliding door and frame (AL/SDa-D) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u></p> <p><u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u></p> <p><u>Minimum 24.76mm (6.38mm/12mm Air Gap/6.38mm) NS PVB Laminated Safety Glass, for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u></p> <p><u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u></p>				
174	Sliding Double door with top and side lights type AL/SDa-001 overall size 3782mm wide x 3400mm high with double sliding door size 1730mm x 2125mm high and Hulabond panel size 3782mm wide x 130mm high	No	1		
175	Sliding Double door with top and side lights type AL/SDa-002 overall size 3994mm wide x 3825mm high with double sliding door size 1730mm x 2125mm high and Hulabond panel size 3994mm wide x 130mm high	No	1		
Carried to Collection					R
Section No. 2 Bill No. 11 Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

176	Sliding Double door with top and side lights type AL/SDa-005 overall size 5034mm wide x 3825mm high with double sliding door size 1730mm x 2125mm high and Hulabond panel size 5034mm wide x 130mm high	No	1		
177	Sliding Double door with top and side lights type AL/SDa-006 overall size 5542mm wide x 3825mm high with double sliding door size 1730mm x 2125mm high and Hulabond panel size 5542mm wide x 130mm high	No	1		
178	Sliding Double door with top and side lights type AL/SDa-004 overall size 6051mm wide x 3825mm high with double sliding door size 1730mm x 2125mm high and Hulabond panel size 6051mm wide x 130mm high	No	1		
179	Sliding Double door with top and side lights type AL/SDa-003 overall size 6415mm wide x 3825mm high with double sliding door size 1730mm x 2125mm high and Hulabond panel size 6415mm wide x 130mm high	No	1		
180	Sliding Double door with top and side lights type AL/SDa-008 overall size 7123mm wide x 3825mm high with double sliding door size 1730mm x 2085mm high and Hulabond panel size 7123mm wide x 130mm high	No	1		
Carried to Collection				R	
Section No. 2 Bill No. 11 Metalwork					

	<p><u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u></p> <p><u>Purpose made aluminium Vistafold sliding folding door (AL/SFE-D) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer. Waterproof frame surround and joints with an approved soft seal.</u></p> <p><u>Doors to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u></p> <p><u>Minimum 24.76mm (6.38mm/12mm Air Gap/6.38mm) NS PVB Laminated Safety Glass, for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u></p> <p><u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u></p>				
181	Sliding folding door with top lights type AL/SFE-003 overall size 5373mm wide x 3825mm high with sliding folding doors over all size 5373mm x 2125mm high	No	1		
182	Sliding folding door with top lights type AL/SFE-001 overall size 5385mm wide x 3825mm high with sliding folding doors over all size 3825mm x 2125mm high	No	1		
183	Sliding folding door with top lights type AL/SFE-002 overall size 5410mm wide x 3825mm high with sliding folding doors over all size 5410mm x 2125mm high	No	1		
Carried to Collection					R
Section No. 2 Bill No. 11 Metalwork					

	<p><u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u></p> <p><u>Purpose made aluminium sliding door and frame (AL/HS-D) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u></p> <p><u>Door and Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u></p> <p><u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u></p> <p><u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u></p>				
184	Single sliding door panel type AL/SS001 overall size 2925mm wide x 2975mm high including automatic sliding door size 1480mm wide x 2085mm high (sliding mechanism to be approved by Architect)	No	1		
185	Single sliding door panel type AL/SSa-001 overall size 2066mm wide x 3400mm high including automatic sliding door size 1033mm wide x 2085mm high (sliding mechanism to be approved by Architect) with Hulabond panel size 2066mm wide x 130mm high	No	1		
Carried to Collection					R
Section No. 2 Bill No. 11 Metalwork					

	<p><u>Aluminium Transom Panel (AL/TD) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u></p> <p><u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u></p> <p><u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u></p> <p><u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u></p>				
186	Hinged double door type ALTD005 size 1650mm wide x 2125mm high	No	1		
187	Hinged double door with top and side lights type ALTD001 overall size 2400mm wide x 3400mm high with double door size 1680mm wide x 2085mm high	No	1		
188	Hinged double door with top and side lights type ALTD003 & ALTD004 overall size 3544mm wide x 3825mm high with double door size 1645mm wide x 2085mm high	No	2		
189	Hinged double door with top and side lights type ALTD002 overall size 3987mm wide x 3060mm high with double door size 1630mm wide x 2465mm high	No	1		
190	Hinged double door with top and side lights type ALTD004 overall size 5344mm wide x 3825mm high with double door size 1654mm wide x 2085mm high	No	1		
Carried to Collection					R
Section No. 2 Bill No. 11 Metalwork					

191	<p>Hinged double door with top and side lights type ALTDac-001 overall size 3782mm wide x 3400mm high with double door size 1730mm wide x 2085mm high</p> <p><u>Aluminium Transom Panel (AL/TD-D) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u></p> <p><u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u></p> <p><u>Minimum 24.76mm (6.38mm/12mm Air Gap/6.38mm) NS PVB Laminated Safety Glass, for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u></p> <p><u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u></p>	No	1		
192	<p>Hinged double door with top and side lights type ALTD-D001 overall size 4053mm wide x 3400mm high with double door size 1630mm wide x 2425mm high</p>	No	1		
193	<p>Hinged double door with top and side lights type ALTD-D002 overall size 3994mm wide x 3825mm high with double door size 1630mm wide x 2085mm high</p>	No	1		
Carried to Collection					
<p>Section No. 2 Bill No. 11 Metalwork</p>					R

	<p><u>Aluminium Transom Panel (AL/TP) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u></p> <p><u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u></p> <p><u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u></p> <p><u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u></p>				
194	Window type AL/TP-001 size 1641mm wide x 3400mm high	No	2		
195	Window type AL/TP-002 size 838mm wide x 3400mm high	No	2		
196	Window type AL/TP-003 size 3795mm wide x 3400mm high	No	1		
197	Window type AL/TP-004 size 1618mm wide x 2295mm high	No	1		
198	Window type AL/TP-006 size 4261mm wide x 3400mm high	No	1		
199	Window type AL/TP-007 size 4273mm wide x 2295mm high	No	1		
200	Window type AL/TP-008 size 3375mm wide x 2295mm high	No	1		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 11				
	Metalwork				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

201	Window type AL/TP-009 size 3513mm wide x 2295mm high	No	1		
202	Window type AL/TP-011 size 3730mm wide x 3060mm high	No	1		
203	Window type AL/TP-012 size 725mm wide x 3060mm high	No	1		
204	Window type AL/TP-013 size 6523mm wide x 3060mm high	No	1		
<p><u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u></p> <p><u>Aluminium Transom Panel (AL/TP) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u></p> <p><u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u></p> <p><u>Minimum 24.76mm (6.38mm/12mm Air Gap/6.38mm) NS PVB Laminated Safety Glass, for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u></p>					
205	Window type AL/TP-D029 size 467mm wide x 765mm high	No	1		
206	Window type AL/TP-D059 size 1800mm wide x 850mm high	No	1		
207	Window type AL/TP-D089 size 2681mm wide x 1700mm high	No	1		
Carried to Collection				R	
Section No. 2 Bill No. 11 Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

208	Window type AL/TP-D050 size 2730mm wide x 3060mm high	No	1		
209	Window type AL/TP-D017 size 2995mm wide x 1190mm high	No	1		
210	Window type AL/TP-D062 size 3442mm wide x 850mm high	No	1		
211	Window type AL/TP-D060 size 3871mm wide x 850mm high	No	1		
212	Window type AL/TP-D061 size 4316mm wide x 850mm high	No	1		
213	Window type AL/TP-D032 size 4570mm wide x 765mm high	No	1		
214	Window type AL/TP-D067 size 4707mm wide x 1020mm high	No	2		
215	Window type AL/TP-D084 size 4754mm wide x 935mm high	No	1		
216	Window type AL/TP-D033 size 4860mm wide x 680mm high	No	1		
217	Window type AL/TP-D035 size 4864mm wide x 680mm high	No	1		
218	Window type AL/TP-D034 size 4866mm wide x 680mm high	No	1		
219	Window type AL/TP-D082 size 5098mm wide x 1700mm high	No	2		
220	Window type AL/TP-D031 size 5318mm wide x 765mm high	No	1		
221	Window type AL/TP-D083 size 6729mm wide x 1700mm high	No	1		
222	Window type AL/TP-D087 size 11211mm wide x 3825mm high	No	1		
Carried to Collection				R	
Section No. 2 Bill No. 11 Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

223	Window type AL/TP-D088 size 450mm wide x 2890mm high with top hung sash	No	2		
224	Window type AL/TP-D043 size 900mm wide x 2720mm high with top hung sash	No	1		
225	Window type AL/TP-D036 size 900mm wide x 2890mm high with top hung sash	No	2		
226	Window type AL/TP-D025 size 900mm wide x 3400mm high with top hung sash	No	2		
227	Window type AL/TP-D058 size 1428mm wide x 3015mm high with top hung sash	No	2		
228	Window type AL/TP-D071 size 1595mm wide x 3825mm high with top hung sash	No	3		
229	Window type AL/TP-D052 size 1800mm wide x 2720mm high with two top hung sashes	No	1		
230	Window type AL/TP-D081 size 2491mm wide x 3825mm high with two top hung sashes	No	1		
231	Window type AL/TP-D057 size 2700mm wide x 2975mm high with three top hung sashes	No	1		
232	Window type AL/TP-D064 size 2723mm wide x 3825mm high with three top hung sashes	No	1		
233	Window type AL/TP-D065 size 2828mm wide x 3825mm high with three top hung sashes	No	1		
234	Window type AL/TP-D063 size 2850mm wide x 3825mm high with three top hung sashes	No	1		
235	Window type AL/TP-D069 size 2965mm wide x 2975mm high with three top hung sashes	No	1		
236	Window type AL/TP-D021 size 3000mm wide x 3400mm high with three top hung sashes	No	1		
237	Window type AL/TP-D037 size 3177mm wide x 3400mm high with three top hung sashes	No	1		
Carried to Collection				R	
Section No. 2 Bill No. 11 Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

238	Window type AL/TP-D053 size 3600mm wide x 2720mm high with two top hung sashes	No	1			
239	Window type AL/TP-D056 size 3716mm wide x 3825mm high with four top hung sashes	No	4			
240	Window type AL/TP-D055 size 3727mm wide x 3825mm high with four top hung sashes	No	4			
241	Window type AL/TP-D066 size 3885mm wide x 2975mm high with four top hung sashes	No	1			
242	Window type AL/TP-D072 size 3994mm wide x 3825mm high with four top hung sashes	No	1			
243	Window type AL/TP-D018 size 4223mm wide x 3400mm high with four top hung sashes	No	5			
244	Window type AL/TP-D068 size 4418mm wide x 3485mm high with four top hung sashes	No	1			
245	Window type AL/TP-D026 size 4800mm wide x 3400mm high with four top hung sashes	No	1			
246	Window type AL/TP-D054 size 4900mm wide x 2975mm high with five top hung sashes	No	1			
247	Window type AL/TP-D080 size 5033mm wide x 3825mm high with five top hung sashes	No	1			
248	Window type AL/TP-D019 size 6781mm wide x 3400mm high with six top hung sashes	No	1			
249	Window type AL/TP-D020 size 13100mm wide x 2975mm high with twelve top hung sashes	No	1			
250	Window type AL/TP-D049 size 990mm wide x 1360mm one way soundproof double glazed unit	No	1			
251	Window type AL/TP-D047 size 1726mm wide x 1360mm one way soundproof double glazed unit	No	1			
252	Window type AL/TP-D046 size 2639mm wide x 1360mm one way soundproof double glazed unit	No	1			
Carried to Collection				R		
Section No. 2 Bill No. 11 Metalwork						

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

253	Window type AL/TP-D044 size 2797mm wide x 1360mm one way soundproof double glazed unit	No	1		
254	Window type AL/TP-D045 size 3751mm wide x 1360mm one way soundproof double glazed unit	No	1		
255	Window type AL/TP-D048 size 4593mm wide x 1360mm one way soundproof double glazed unit	No	1		
256	Window type AL/TP-D023 with horizontal section size 400mm wide x 850mm high and no. 2 vertical sections 600mm wide x 2550mm high with top hung sashes	No	1		
257	Window type AL/TP-D042 with horizontal section size 1340mm wide x 850mm high and vertical section 885mm wide x 1870mm high with top hung sash	No	1		
258	Window type AL/TP-D022 with horizontal section size 1800mm wide x 850mm high and vertical section 885mm wide x 2550mm high with top hung sash	No	1		
259	Window type AL/TP-D003 with horizontal section size 2173mm wide x 850mm high and vertical section size 600mm wide x 1870mm high with top hung sash	No	1		
260	Window type AL/TP-D011 with horizontal section size 2173mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	1		
261	Window type AL/TP-D039 with horizontal section size 2187mm wide x 850mm high and vertical section 885mm wide x 1530mm high with top hung sash	No	1		
262	Window type AL/TP-D041 with horizontal section size 2195mm wide x 850mm high and vertical section 585mm wide x 1445mm high with top hung sash	No	2		
263	Window type AL/TP-D024 with horizontal section size 2700mm wide x 850mm high and vertical section 885mm wide x 2550mm high with top hung sash	No	1		
264	Window type AL/TP-D040 with horizontal section size 2719mm wide x 935mm high and vertical section 585mm wide x 1445mm high with top hung sash	No	1		
Carried to Collection				R	
Section No. 2 Bill No. 11 Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

265	Window type AL/TP-D010 with horizontal section size 3300mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	1		
266	Window type AL/TP-D002 with horizontal section size 3300mm wide x 850mm high and vertical section size 600mm wide x 1870mm high with top hung sash	No	1		
267	Window type AL/TP-D027 with horizontal section size 3300mm wide x 850mm high and vertical section 1185mm wide x 2805mm high with top hung sash	No	2		
268	Window type AL/TP-D028 with horizontal section size 3300mm wide x 850mm high and vertical section 1185mm wide x 2805mm high with top hung sash	No	2		
269	Window type AL/TP-D007 with horizontal section size 3372mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	1		
270	Window type AL/TP-D016 with horizontal section size 3372mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	1		
271	Window type AL/TP-D008 with horizontal section size 3411mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	2		
272	Window type AL/TP-D009 with horizontal section size 3411mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	2		
273	Window type AL/TP-D012 with horizontal section size 3411mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	2		
274	Window type AL/TP-D015 with horizontal section size 3411mm wide x 850mm high, vertical section 600mm wide x 1870mm high with top hung sash and vertical section size 1800mm wide x 2380mm high with two top hung sashes	No	1		
275	Window type AL/TP-D001 with horizontal section size 3411mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	1		
Carried to Collection				R	
Section No. 2 Bill No. 11 Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

276	Window type AL/TP-D013 with horizontal section size 3411mm wide x 850mm high, vertical section 1800mm wide x 2380mm high with two top hung sashes and vertical section 600mm wide x 1870mm high with top hung sash	No	2		
277	Window type AL/TP-D006 with horizontal section size 3542mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	1		
278	Window type AL/TP-D014 with horizontal section size 3542mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	1		
279	Window type AL/TP-D078 with horizontal section size 4309mm wide x 1020mm high with top hung sash	No	2		
280	Window type AL/TP-D070 with horizontal section size 4349mm wide x 850mm high and two vertical sections 885mm wide x 2975mm high with two top hung sashes	No	1		
281	Window type AL/TP-D051 with horizontal section size 4857mm wide x 850mm high, one vertical section 1800mm wide x 1870mm high and one vertical section 900mm wide x 1870mm high with three top hung sashes	No	1		
282	Window type AL/TP-D004 with horizontal section size 5105mm wide x 850mm high, 1800mm wide x 2380mm high with two top hung sashes and vertical section size 600mm wide x 1870mm high with top hung sash	No	1		
283	Window type AL/TP-D005 with horizontal section size 5105mm wide x 850mm high, vertical section size 600mm wide x 1870mm high with top hung sash and 1800mm wide x 2380mm high with two top hung sashes	No	1		
284	Window type AL/TP-D038 with horizontal section size 6150mm wide x 850mm high, one vertical section 585mm wide x 1530mm high and one vertical section 1785mm wide x 1530mm high with three top hung sashes	No	1		
Carried to Collection				R	
Section No. 2 Bill No. 11 Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

285	Window type AL/TP-D079 with horizontal section size 7074mm wide x 1190mm high and vertical section 885mm wide x 1530mm high with top hung sash	No	1		
286	Window type AL/TP-D086 with horizontal section size 2100mm wide x 1190mm high and vertical section 600mm wide x 1530mm high with top hung sash	No	1		
287	Window type AL/TP-D085 overall size 5680mm wide x 2811mm high one side with 3 degree fall to 2483mm high on other side	No	1		
288	Raking window type AL/TP-D085 size 5680mm wide x 2811mm high one side with 3 degree fall to 2483mm high on other side	No	1		
Carried to Collection					
Section No. 2 Bill No. 11 Metalwork					R

	<p><u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u></p> <p><u>Purpose made aluminium window frame (AW) (Casenent 34, with 100mm mullions, pending detail design by Specialist) in configuration as described, with or without opening sections. Complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u></p> <p><u>Window frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u></p> <p><u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u></p> <p><u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u></p>				
289	Window type AW-001 size 600mm wide x 1445mm high with top hung sash	No	8		
290	Window type AW-002 size 1500mm wide x 1445mm high with top hung sash	No	2		
291	Window type AW-003 size 1500mm wide x 1445mm high	No	4		
Carried to Collection					R
Section No. 2 Bill No. 11 Metalwork					

	<p><u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u></p> <p><u>Purpose made aluminium window frame (AW) (Casenent 34, with 100mm mullions, pending detail design by Specialist) in configuration as described, with or without opening sections. Complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u></p> <p><u>Window frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u></p> <p><u>Minimum 24.76mm (6.38mm/12mm Air Gap/6.38mm) NS PVB Laminated Safety Glass, for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u></p> <p><u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u></p>				
292	Window type AW-D053 size 900mm wide x 1615mm high	No	1		
293	Window type AW-D069 size 1049mm wide x 2558mm high	No	1		
294	Window type AW-D064 size 1134mm wide x 2558mm high	No	1		
295	Window type AW-D041 size 1500mm wide x 2380mm high	No	1		
296	Window type AW-D057 size 2075mm wide x 850mm high	No	2		
297	Window type AW-D034 size 1500mm wide x 2805mm high	No	1		
Carried to Collection					R
Section No. 2 Bill No. 11 Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

298	Window type AW-D051 size 2192mm wide x 850mm high	No	2			
299	Window type AW-D049 size 2202mm wide x 850mm high	No	2			
300	Window type AW-D050 size 2255mm wide x 850mm high	No	2			
301	Window type AW-D009 size 2798mm wide x 850mm high	No	1			
302	Window type AW-D007 size 2800mm wide x 850mm high	No	2			
303	Window type AW-D055 size 3542mm wide x 2558mm high	No	1			
304	Window type AW-D054 size 3698mm wide x 2558mm high	No	1			
305	Window type AW-D033 size 599mm wide x 1105mm high with top hung sash	No	4			
306	Window type AW-D037 size 600mm wide x 850mm high with top hung sash	No	1			
307	Window type AW-D079 size 600mm wide x 880mm high with top hung sash	No	2			
308	Window type AW-D070 size 600mm wide x 1275mm high with top hung sash	No	6			
309	Window type AW-D028 size 600mm wide x 1530mm high with top hung sash	No	2			
310	Window type AW-D052 size 600mm wide x 1615mm high with top hung sash	No	9			
311	Window type AW-D065 size 600mm wide x 1870mm high with top hung sash	No	4			
312	Window type AW-D074 size 600mm wide x 2210mm high with top hung sash	No	16			
Carried to Collection				R		
Section No. 2						
Bill No. 11						
Metalwork						

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

313	Window type AW-D063 size 600mm wide x 2292mm high with top hung sash	No	7			
314	Window type AW-D018 size 600mm wide x 2380mm high with top hung sash	No	1			
315	Window type AW-D071 size 600mm wide x 2720mm high with top hung sash	No	7			
316	Window type AW-D047 size 600mm wide x 2720mm high with top hung sash	No	21			
317	Window type AW-D056 size 600mm wide x 3060mm high with top hung sash	No	4			
318	Window type AW-D066 size 600mm wide x 3145mm high with top hung sash	No	11			
319	Window type AW-D030 size 758mm wide x 2380mm high with top hung sash	No	1			
320	Window type AW-D032 size 815mm wide x 2380mm high with top hung sash	No	1			
321	Window type AW-D075 size 900mm wide x 2210mm high with top hung sash	No	1			
322	Window type AW-D060 size 900mm wide x 2295mm high with top hung sash	No	1			
323	Window type AW-D062 size 900mm wide x 2295mm high with top hung sash	No	11			
324	Window type AW-D048 size 900mm wide x 2380mm high with top hung sash	No	4			
325	Window type AW-D046 size 900mm wide x 2720mm high with top hung sash	No	21			
326	Window type AW-D073 size 900mm wide x 2720mm high with top hung sash	No	6			
327	Window type AW-D067 size 900mm wide x 3145mm high with top hung sash	No	1			
Carried to Collection					R	
Section No. 2						
Bill No. 11						
Metalwork						

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

328	Window type AW-D058 size 1140mm wide x 2720mm high with top hung sash	No	1			
329	Window type AW-D004 size 1200mm wide x 1530mm high with top hung sash	No	2			
330	Window type AW-D005 size 1200mm wide x 2210mm high with top hung sash	No	2			
331	Window type AW-D068 size 1200mm wide x 2295mm high with top hung sash	No	1			
332	Window type AW-D036 size 1500mm wide x 1955mm high with top hung sash	No	1			
333	Window type AW-D045 size 1500mm wide x 1955mm high with top hung sash	No	1			
334	Window type AW-D072 size 1500mm wide x 2125mm high with top hung sash	No	1			
335	Window type AW-D025 size 1500mm wide x 2380mm high with top hung sash	No	1			
336	Window type AW-D077 size 1500mm wide x 2720mm high with top hung sash	No	1			
337	Window type AW-D043 size 1666mm wide x 1955mm high with top hung sash	No	1			
338	Window type AW-D042 size 1674mm wide x 1955mm high with top hung sash	No	1			
339	Window type AW-D029 size 1745mm wide x 2380mm high with top hung sash	No	1			
340	Window type AW-D031 size 1745mm wide x 2380mm high with top hung sash	No	1			
341	Window type AW-D016 size 1782mm wide x 2380mm high with top hung sash	No	2			
342	Window type AW-D035 size 1800mm wide x 1955mm high with top hung sash	No	1			
Carried to Collection					R	
Section No. 2						
Bill No. 11						
Metalwork						

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

343	Window type AW-D040 size 1800mm wide x 1955mm high with top hung sash	No	1			
344	Window type AW-D061 size 1800mm wide x 2720mm high with two top hung sashes	No	1			
345	Window type AW-D076 size 1800mm wide x 2720mm high with top hung sash	No	2			
346	Window type AW-D006 size 1800mm wide x 3230mm high with two top hung sashes	No	2			
347	Window type AW-D008 size 1800mm wide x 3230mm high with two top hung sashes	No	2			
348	Window type AW-D039 size 2400mm wide x 1955mm high with top hung sash	No	1			
349	Window type AW-D044 size 2400mm wide x 1955mm high two top hung sash	No	1			
350	Window type AW-D059 size 2400mm wide x 2295mm high with two top hung sashes	No	2			
351	Window type AW-D023 size 2400mm wide x 2380mm high with top hung sash	No	1			
352	Window type AW-D024 size 2400mm wide x 2380mm high with top hung sash	No	1			
353	Window type AW-D010 size 3642mm wide x 2975mm high with four top hung sashes	No	1			
354	Window type AW-D038 size 3300mm wide x 1955mm high with two top hung sashes	No	1			
355	Window type AW-D022 size 3300mm wide x 2380mm high with two top hung sashes	No	1			
356	Window type AW-D011 size 3350mm wide x 2975mm high with four top hung sashes	No	1			
357	Window type AW-D012 size 3350mm wide x 2975mm high with four top hung sashes	No	1			
Carried to Collection					R	
Section No. 2 Bill No. 11 Metalwork						

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

358	Window type AW-D013 size 3350mm wide x 2975mm high with four top hung sashes	No	1			
359	Window type AW-D078 size 600mm wide x 6460mm high with two top hung sashes, Hulabond panel size 600mm wide x 482mm wide and louvre size 600mm wide x 656mm high (elsewhere measured)	No	1			
360	Window type AW-D001 size 600mm wide x 6458mm high with two top hung sashes and Hulabond panel size 600mm wide x 482mm wide	No	10			
361	Window type AW-D019 size 600mm wide x 6210mm high with two top hung sashes and Hulabond panel size 600mm wide x 482mm wide	No	6			
362	Window type AW-D002 size 900mm wide x 7225mm high with two top hung sashes and Hulabond panel size 900mm wide x 822mm wide	No	3			
363	Window type AW-D017 size 900mm wide x 5355mm high with two top hung sashes and Hulabond panel size 900mm wide x 482mm wide	No	6			
364	Window type AW-D020 size 1500mm wide x 5355mm high with two top hung sashes and Hulabond panel size 1500mm wide x 482mm wide	No	1			
365	Window type AW-D003 size 1800mm wide x 7225mm high with four top hung sashes and two Hulabond panel size each 900mm wide x 822mm wide	No	1			
366	Window type AW-D014 size 1800mm wide x 5355mm high with two top hung sashes and Hulabond panel size 1800mm wide x 482mm wide	No	4			
367	Window type AW-D015 size 1800mm wide x 5355mm high with two top hung sashes and Hulabond panel size 1800mm wide x 482mm wide	No	2			
368	Window type AW-D027 size 2100mm wide x 5355mm high with two top hung sashes and Hulabond panel size 2100mm wide x 482mm wide	No	4			
Carried to Collection					R	
Section No. 2 Bill No. 11 Metalwork						

369	Window type AW-D026 size 2400mm wide x 5355mm high with two top hung sashes and Hulabond panel size 2400mm wide x 482mm wide	No	1	
370	Window type AW-D021 size 2400mm wide x 5355mm high with two top hung sashes and Hulabond panel size 2400mm wide x 482mm wide	No	1	
<p><u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u></p> <p><u>Purpose made aluminium view panel (VP) (Wispeco to detail design by Specialist) in configuration as described.</u></p> <p><u>View panel to be finished Polyester Powder Coated (50 - 100 Micron thick)</u></p> <p><u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u></p> <p><u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u></p>				
371	View panel type VP003 size 1200mm wide x 1360mm high	No	3	
372	View panel type VP004 size 1500mm wide x 1360mm high	No	3	
373	View panel type VP002 size 1800mm wide x 1360mm high	No	2	
374	View panel type VP001 size 2100mm wide x 1360mm high	No	5	
Carried to Collection				
Section No. 2 Bill No. 11 Metalwork				

	<p><u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u></p> <p><u>Purpose made aluminium view panel (VP) (Wispeco to detail design by Specialist) in configuration as described.</u></p> <p><u>View panel to be finished Polyester Powder Coated (50 - 100 Micron thick)</u></p> <p><u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u></p> <p><u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u></p> <p>375 Counter view panel type ALCVP006 overall size 2530mm wide x 1360mm high with opening size 2530mm wide x 100mm high above counter top</p> <p>376 Allowance for purpose made aluminium window with double glazing of R420 000.00 type CUS001</p> <p><u>ALUMINIUM LOUVRES</u></p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 11 Metalwork</p>	No	1	Item	
			R		

	<p><u>Purpose aluminium louvre weather louvre door / fixed panels as per Wispeco (011 389 0000) or equal and approved to suit required site specific wind load.</u></p> <p><u>Purpose made aluminium door and panel frame (AL/LZD) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, to suit hinges or overhead transom closer as specified elsewhere, with or without opening sections as shown. Waterproof frame surround and joints with an approved soft seal. Including steel frame and beams.</u></p> <p><u>Door and panel frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick).</u></p> <p><u>Crealco Lazy Z Clip 44 louvres with 2 screw ports equally spaced at 50mm complete with outer frames, stringers, brackets and mesh bird/vermin proofing.</u></p>				
377	Fixed louvres 3420 x 765mm in 4 panels as fan light with and including double door 1770 x 2255mm high type ALLZD-001	No	1		
378	Fixed louvres 4931 x 765mm in 6 panels as fan light with and including double door 1770 x 2255mm high type ALLZD-002	No	1		
379	Fixed louvres overall size 1032 x 3351mm high in 2 panels including double door 1032 x 2155mm high type ALLZD-003	No	1		
380	Fixed louvres overall size 1650 x 3351mm high in 1 panel including double door 1650 x 2155mm high type ALLZD-004	No	1		
381	Louvre panel overall size 7787 x 6375mm high consisting of 12 fixed louvre panels and two double door size 1695 x 2380mm high type ALLZD-05	No	1		
382	Double louvre door size 1267 x 425mm high type ALLZD-006	No	3		
Carried to Collection					R
Section No. 2 Bill No. 11 Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

383	Double louvre door size 1461 x 425mm high type ALLZD-007	No	2			
384	Fixed louvre panel consisting of horizontal panel 2646 x 765mm high in 3 panels and one vertical panel size 887 x 2255mm high type ALLZP001	No	1			
385	Fixed louvre panel 1585 x 765mm high in 2 panels type ALLZP002	No	1			
386	Fixed louvre panel consisting of horizontal panel size 5138 x 765mm high in 7 panels, one vertical panel size 2022 x 2255mm high in 3 panels and one vertical panel size 894 x 2255mm high in 1 panel type ALLZP003	No	1			
387	Fixed louvre panel 456 x 3060mm high in 2 panels type ALLZP004	No	1			
388	Fixed louvre panel 964 x 3060mm high in 2 panels type ALLZP005	No	1			
389	Fixed louvre panel 516 x 1105mm high type ALLZP006	No	2			
390	Fixed louvre panel 963 x 3655mm high in 2 panels type ALLZP007	No	1			
391	Fixed louvre panel 2055 x 3740mm high in 6 panels type ALLZP012	No	4			
392	Fixed louvre panel consisting off two panels each 3765 x 3995mm high in 10 panels type ALLZP013	No	1			
393	Fixed louvre panel 5338 x 3825mm high in 14 panels type ALLZP014	No	1			
394	Fixed louvre panel overall size 681 x 3825mm high consisting off one panels size 609 x 510mm high and other size 681 x 3145mm high in 2 panels type ALLZP015	No	1			
395	Fixed louvre panel 2569 x 765mm high in 4 panels type ALLZP016	No	3			
Carried to Collection					R	
Section No. 2						
Bill No. 11						
Metalwork						

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

396	Fixed louvre panel 860 x 860mm high type ALLZP020	No	1			
397	Fixed louvre panel consisting off two panels each 3032 x 3020mm high in 4 panels type ALLZP021	No	1			
398	Fixed louvre panel consisting off two panels each 2753 x 3020mm high in 4 panels type ALLZP022	No	1			
399	Fixed louvre panel 3502 x 2860mm high in 4 panels type ALLZP023	No	1			
400	Fixed louvre panel 493 x 3060mm high in 2 panels type ALLZP024	No	1			
401	Fixed louvre panel 560 x 430mm high type ALLZP025	No	1			
402	Fixed louvre panel 1200 x 600mm high in 2 panels type ALLZP026	No	1			
403	Fixed louvre panel 1200 x 600mm high in 2 panels type ALLZP027	No	2			
404	Fixed louvre panel 1200 x 600mm high in 2 panels type ALLZP028	No	1			
405	Fixed louvre panel 1200 x 600mm high in 2 panels type ALLZP029	No	3			
406	Fixed louvre panel 4850 x 4080mm high in 12 panels type ALLZP031	No	1			
407	Louvre panel overall size 3084 x 4250mm high consisting of 7 fixed louvre panels and one single door size 890 x 2340mm high type ALLZS-001	No	1			
408	Fixed louvres 7431 x 765mm in 9 panels including single door 905 x 2255mm high type ALLZS-002	No	1			
409	Louvre panel overall size 1531 x 4290mm high consisting of 5 fixed louvre panels and one single door size 880 x 2380mm high type ALLZS-003	No	1			
410	Louvre panel overall size 1495 x 3060mm high consisting of 5 fixed louvre panels and one single door size 880 x 2380mm high type ALLZS-004	No	1			
Carried to Collection				R		
Section No. 2						
Bill No. 11						
Metalwork						

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

411	Louvre panel overall size 2890 x 3060mm high consisting of 5 fixed louvre panels and one single door size 880 x 2255mm high type ALLZS-005	No	1		
412	Louvre panel overall size 2760 x 3485mm high consisting of 5 fixed louvre panels and one single door size 925 x 2550mm high and one additional fixed panel 398 x 1105mm high type ALLZS-006	No	1		
413	Louvre panel overall size 4588 x 3570mm high consisting of 9 fixed louvre panels and one single door size 927 x 2635mm high type ALLZS-007	No	1		
414	Louvre panel overall size 4879 x 3655mm high consisting of 13 fixed louvre panels and one single door size 880 x 2435mm high type ALLZS-008	No	1		
415	Louvre panel overall size 700 x 3655mm high with single door size 700 x 2720mm high type ALLZS-009	No	1		
416	Louvre panel overall size 1534 x 4080mm high consisting of 3 fixed louvre panels and one single door size 909 x 2350mm high type ALLZS-010	No	1		
417	Louvre panel overall size 900 x 4080mm high single door size 900 x 2380mm high type ALLZS-011	No	1		
418	Louvre panel overall size 1050 x 3570mm high with single door size 1050 x 2380mm high type ALLZS-014	No	1		
419	Louvre panel overall size 4559 x 3315mm high consisting of 7 fixed louvre panels, two single doors each size 925 x 2125mm high and one single door size 910 x 2125mm high type ALLZS-015	No	1		
420	Louvre panel overall size 1816 x 2720mm high consisting of 3 fixed louvre panels and one single door size 900 x 2300mm high type ALLZS-0016	No	1		
421	Louvre panel overall size 1275 x 1445mm high consisting of 1 fixed louvre panels and one single door size 915 x 1445mm high type ALLZS-0017	No	1		
422	Single louvre door size 1200 x 2125mm high type ALLZS-018	No	1		
Carried to Collection				R	
Section No. 2 Bill No. 11 Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

423	Louvre panel overall size 1675 x 3060mm high consisting of 3 fixed louvre panels and one single door size 870 x 2295mm high type ALLZS-019	No	1		
424	Louvre panel overall size 3365 x 3655mm high consisting of 9 fixed louvre panels and one single door size 900 x 2720mm high type ALLZS-020	No	1		
425	Single louvre door size 600 x 1900mm high type ALLZS-021	No	1		
426	Louvre panel overall size 788 x 3995mm high with single door size 788 x 2085mm high type ALLZS-022	No	1		
427	Louvre panel overall size 1147 x 4080mm high consisting of 3 fixed louvre panels with single door size 915 x 2380mm high type ALLZS-023	No	1		
428	Louvre panel overall size 4879 x 3995mm high consisting of 13 fixed louvre panels and one single door size 880 x 2125mm high type ALLZS-024	No	1		
429	Louvre panel overall size 1420 x 3825mm high consisting of 5 fixed louvre panels and one single door size 915 x 2125mm high type ALLZS-025	No	1		
430	Louvre panel overall size 1487 x 3825mm high consisting of 5 fixed louvre panels and one single door size 915 x 2125mm high type ALLZS-026	No	1		
Carried to Collection					
Section No. 2 Bill No. 11 Metalwork					

	<p><u>Purpose made High Security panels and gates by ClearVU (031 700 5990) or equal and approved. Panel aperture to be 76 x 12.7mm, reinforced by 4 x 50mm deep V formation, 2 x 70 flanges along sides and 2 x 30mm flanges on top and bottom, panels and gates to be hot dipped galvanised and Marine fusion coated, with and including frame, etc. as per manufactures specification and installed all in accordance with the manufacturers specification.</u></p> <p><u>A 100mm high toughened steel Shark Tooth Spike shall be affixed to panel edge, internally 150mm intervals using anti-vandal bolts, spike finish to be hot dipped galvanised and marine fusion bond coated.</u></p>				
431	Panel overall size 4576 x 3060mm in 3 panels including 50 x 50mm frame type SEC/CVP006	No	2		
432	Panel overall size 3464 x 3060mm in 3 panels with opening size 1408mm wide x 2124mm high in middle panel including 50 x 50mm frame type SEC/CVP008	No	1		
433	Panel overall size 4600 x 2255mm in 2 panels including 50 x 50mm frame type SEC/CVP009	No	2		
434	Panel overall size 2360 x 2935mm including 50 x 50mm frame type SEC/CVP010	No	1		
435	Panel overall size 2960 x 2935mm including 50 x 50mm frame type SEC/CVP011	No	1		
436	Panel overall size 3595 x 2255mm in panels including 50 x 50mm frame type SEC/CVP012	No	1		
Carried to Collection					R
Section No. 2 Bill No. 11 Metalwork					

	<p><u>Purpose made High Security panels and gates by ClearVU (031 700 5990) or equal and approved. Panel aperture to be 76 x 12.7mm, reinforced by 4 x 50mm deep V formation, 2 x 70 flanges along sides and 2 x 30mm flanges on top and bottom, panels and gates to be hot dipped galvanised and Marine fusion coated, with and including frame and bolted to, two 100 x 100mm steel posts 3075mm long to and including 15MPa/19mm aggregate concrete block 600 x 600 x 650mm deep with vandal resistant bolts and clamping plates including sealed end caps, bolts, double clamping plates, etc. as per manufactures specification and installed all in accordance with the manufacturers specification.</u></p> <p><u>A 100mm high toughened steel Shark Tooth Spike shall be affixed to panel edge, internally 150mm intervals using anti-vandal bolts, spike finish to be hot dipped galvanised and marine fusion bond coated.</u></p> <p><u>See attached drawing for hinge details P2A-HDG-070-760 and 766.</u></p>				
437	Panel overall size 1049 x 2720mm high with single door size 1049 x 2255mm high complete with 50 x 50mm frame type SEC/CVS005	No	1		
438	Panel overall size 3205 x 2215mm high in 3 panels with door size 1029 x 2125mm high complete including 50 x 50mm frame for door and panel type SEC/CVS006	No	1		
439	Panel overall size 1100 x 2210mm high including 50 x 50mm frame and 100 x 100mm posts complete type SEC/CVS007	No	2		
440	Panel overall size 4928 x 3060mm in 3 panels including 50 x 50mm frame type SEC/CVP007	No	1		
441	Double gates size 1800 x 2675mm high in 2 panels including 50 x 50mm frame type SEC/CVD002	No	1		
Carried to Collection					R
Section No. 2 Bill No. 11 Metalwork					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

<div>442</div>	<div>Provide the sum of R250 000,00 for design development on aluminium windows, doors and screens</div> <div>Carried to Collection</div> <div>Section No. 2 Bill No. 11 Metalwork</div>	<div>Item</div>		
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Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

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**Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works**

Section No. 2			
Bill No. 11			
Metalwork			
<u>COLLECTION</u>			
	Page No		Amount
Brought Forward		R	
Total Brought Forward from Page No.	304		
	305		
	306		
	307		
	308		
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	310		
	311		
	312		
	313		
	314		
	315		
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	318		
	319		
	320		
	321		
	322		
Carried Forward		R	
Section No. 2			
Bill No. 11			
Metalwork			

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

Section No. 2				
Bill No. 11				
Metalwork				
<u>COLLECTION</u>				
	Page No		Amount	
Brought Forward		R		
Total Brought Forward from Page No.	323			
	324			
	325			
	326			
	327			
	328			
	329			
	330			
	331			
	332			
	333			
	334			
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	336			
	337			
	338			
	339			
	340			
	341			
Carried Forward		R		
Section No. 2				
Bill No. 11				
Metalwork				

**Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works**

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Item No		Quantity	Rate	Amount	
	<u>SECTION NO. 2</u>				
	<u>BILL NO. 11</u>				
	<u>PLASTERING</u>				
	<u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Cement is to be manufactured in accordance with SANA 50197-1, SANA 2001-EM1:2007 and Successful Plastering from the Concrete Institute.				
	<u>SELF-LEVELLING SCREED</u>				
	<u>Prepare surface and apply two coats approved primer, followed by a single application of cementitious self-levelling screed trowelled by hand as per the manufacturer's instructions</u>				
1	Average 3mm Thick on concrete floors to receive vinyl sheeting	m2	7,534		
	<u>SCREEDS</u>				
	<u>1:3 Cement plaster screeds on concrete</u>				
2	30mm Thick on floors	m2	10,525		
3	30mm Thick on floors to falls	m2	104		
4	30mm Thick on narrow widths	m2	79		
5	30mm Thick on treads and risers	m2	43		
6	100mm Thick (average) on slabs to falls to receive waterproofing	m2	2,787		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 12				
	Plastering				

7	75 x 75mm Triangular fillet at perimeter of roof screed to receive turn-up of waterproofing	m	1,907			
	<u>GRANOLITHIC</u>					
	<u>Untinted granolithic on concrete</u>					
8	32mm Thick on floors.	m2	618			
9	30mm Thick on treads and risers	m2	62			
10	One coat non-slip wax polish on grano floors.	m2	618			
11	75mm High coved skirting against walls	m	720			
	<u>POLYURETHANE SCREED</u>					
	<u>Sikafloor-20N PurCem or equal and approved multi-component resin rich smooth trowel grade coloured polyurethane cement and aggregate screed with steel trowel finish applied according to manufacturers specification</u>					
12	6mm Thick on floors	m2	723			
13	9mm Thick on floors	m2	213			
14	6mm Thick on treads and risers	m2	1			
	<u>Sikafloor-29N PurCem or equal and approved multi-component vertical grade coloured polyurethane modified for detailing work and vertical rendering applied according to manufacturers specification</u>					
15	100mm High Sikafloor-29N Purcem - Coving system 3 - 9mm thick multi-component, vertical grade, coloured polyurethane modified, cement and aggregate mortar vertical skirting or equal and approved in accordance with manufacturer's specification	m	659			
	Carried to Collection				R	
	Section No. 2 Bill No. 12 Plastering					

	<u>Sikafloor-21N PurCem or equal and approved multi-component medium to high strength coloured polyurethane modified cement and aggregate screed with self-smoothing properties applied according to manufacturers specification</u>				
16	4mm Thick on floors	m2	300		
	<u>EXTERNAL PLASTER</u>				
	<u>One coat cement plaster minimum 12mm thick composed of 1 part Surebuild cement (Code: CEMII/B 32.5R) and 6 parts sand and one bag of CHRYSO Fibrin XT fibres (+27(0)11 395 9700) (600gr) per m3 of concrete or equal and approved, finished smooth with a steel float to received wall finish, including all labours on brickwork</u>				
17	On walls (part on concrete)	m2	5,472		
18	On walls (part on concrete) circular on plan	m2	43		
19	On walls in narrow widths.	m2	324		
20	On concrete soffits	m2	1,293		
	<u>INTERNAL PLASTER</u>				
	<u>One coat cement plaster minimum 12mm thick composed of 1 part Surebuild cement (Code: CEMII/B 32.5R) or equal and approved and 6 parts sand and one bag of CHRYSO Fibrin XT mono filament polypropylene fibres or equal and approved (+27(0)11 395 9700) (600gr) per m3 of concrete, finished smooth with a wood float for tiling including all labours on brickwork</u>				
21	On walls, part on concrete	m2	418		
22	On walls, part on concrete circular on plan	m2	31		
23	On narrow widths	m2	25		
24	On concrete soffits	m2	723		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 12				
	Plastering				

	One coat cement plaster minimum 12mm thick composed of 1 part Surebuild cement (Code: CEMII/B 32.5R) or equal and approved and 6 parts sand and one bag of CHRYSO Fibrin XT mono filament polypropylene fibres or equal and approved (+27(0)11 395 9700) (600gr) per m3 of concrete, finished smooth with a steel float to received wall finish, including all labours on brickwork				
25	On walls, part on concrete	m2	19,606		
26	On narrow widths	m2	452		
27	On concrete soffits	m2	876		
	Drip Joint				
28	15 x 20mm Capco or equal and approved wall reveal drip joint installed to cantilever slab, beams and window reveals	m	2,275		
	<u>DIVIDING STRIPS, ETC</u>				
	<u>Corner protectors, dividing strips, etc</u>				
29	5 x 40mm Flat section brass dividing strips between different floor finishes	m	394		
	<u>SPECIALIST COATINGS</u>				
	All specialist coatings listed below to receive the following primer and should be included in the rates for the coatings Apply one coat unreduced 100% acrylic emulsion water based primer. Added in-can preservator, extender fillers and adhesion promoting properties. Pigmented to approved colour. Applied by sheepskin roller and allowed to cure.				
	<u>Versus Europlaster Texrured Plaster Finish</u>				
	Carried to Collection			R	
	Section No. 2 Bill No. 12 Plastering				

	<u>Supply and apply one coat Versus Europlaster 1.2mm or equal and approved by steel trowel and float in random movement with acrylic trowel to approved texture, tinted to architects approved colour specification using BAYFERROX Ion oxide pigments or equal and approved (optimised synthesis of shade, colour, strength and heat stability) all accordance with manufacturing requirements</u>				
30	On external plastered walls	m2	2,217		
31	On narrow widths	m2	53		
	<u>Versus Suede Plaster Finish</u>				
	<u>Supply and apply one coat Versus primer and one coat Versus Suede equal and approved by steel trowel, tinted to architects approved colour all accordance with manufacturing requirements</u>				
32	On external plastered walls	m2	203		
33	On narrow widths	m2	6		
	<u>Versus Italic Plaster Finish</u>				
	<u>Supply and apply one coat Versus Italic or equal and approved by steel trowel and float in random movement with stainless steel trowel and floated by plastic float to approved texture, tinted to architects approved colour specification using BAYFERROX Ion oxide pigments or equal and approved (optimised synthesis of shade, colour, strength and heat stability) all accordance with manufacturing requirements</u>				
34	On external plastered walls	m2	800		
35	On narrow widths	m2	49		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 12				
	Plastering				

**Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works**

[illegible]

Item No		Quantity	Rate	Amount	
	<u>SECTION NO. 2</u>				
	<u>BILL NO. 12</u>				
	<u>TILING</u>				
	<u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>				
	<u>WALL TILING</u>				
	<u>Glazed ceramic wall tiles UT4078 size 300mm x 600mm with 3mm joints installed to tile pattern layout, fixed with 0860 000 TAL (825) or equal and approved porcelain adhesive to plaster (plaster elsewhere) and flush pointed with TAL Wall & Floor Grout or equal and approved</u>				
1	On walls	m2	435		
2	In splash backs	m2	44		
3	In narrow widths	m2	1		
4	On sills 110mm wide laid sloping	m	96		
	<u>Glazed verified porcelain wall tiles UT4080 with PEI 3 rating (EN ISO 10545-7) with 3mm joints installed to tile pattern layout, fixed an approved porcelain adhesive to plaster (plaster elsewhere) and flush pointed with TAL Acid Resistant Grout or equal and approved</u>				
5	On walls	m2	52		
	<u>Allow a Prime Cost Amount of R450/m2 for natural stone external tiles fixed with an approved adhesive to plaster (plaster elsewhere) and flush pointed with tile grout</u>				
6	On walls	m2	240		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 13				
	Tiling				

7	On walls circular on plan	m2	87		
8	In narrow widths	m2	3		
<u>FLOOR TILING</u>					
<u>Vitrified full body porcelain (UGL) tiles size 600 x 600mm with a water absorption (EN ISO 10545-3) of less than 0,1% and a scratch resistance (EN ISO 10545-7) of <150mm3, slip classification (DIN 51130(R)) to be R11 install with an approved tile adhesive and joints filled with COPROX waterproof grout all strictly to manufacturer's specifications. Colour and type to Architect's approval</u>					
9	On floors.	m2	992		
10	On treads and risers.	m2	47		
11	In narrow widths.	m2	37		
12	100mm High cut skirting tile on walls.	m	633		
13	100mm High cut skirting tile on walls to treads and risers	m	30		
<u>Double charge Vitrified full body porcelain tiles size 600 x 600mm with a water absorption (EN ISO 10545-3) of less than 0,1% and s scratch resistance (EN ISO 10545-7) of <150mm3, slip classification (DIN 51130(R)) to be R9 install with an approved tile adhesive and joints filled with COPROX waterproof grout all strictly to manufacturer's specifications. Colour and type to Architect's approval</u>					
14	On floors.	m2	1,466		
15	On treads and risers.	m2	16		
16	In narrow widths.	m2	27		
17	100mm High cut skirting tile on walls.	m	1,165		
Carried to Collection				R	
Section No. 2					
Bill No. 13					
Tiling					

	<u>SUNDRIES</u>				
18	"Kirk M-Trim ASE 080", or equal approved, aluminium straight edge trim fixed in strict accordance with the manufacturer's instructions	m	383		
19	"Kirk M-Trim ATIN120" aluminium tile-in stair nosing or equal and approved size 25 x 12mm high to suit tiling thickness fitted on treads in strict accordance with the manufacturer's instructions.	m	96		
Carried to Collection					
					R
Section No. 2 Bill No. 13 Tiling					

**Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works**

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 13</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>uPVC pipes and fittings:</u></p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints</p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>Bill No. 14</p> <p>Plumbing and Drainage</p>			

<u>Copper pipes:</u>				
<p>Pipes shall be hard drawn and half hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half hard), class 2 (half hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground</p>				
<u>Fixing of pipes</u>				
<p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level</p>				
<u>Reducing fittings</u>				
<p>Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained</p>				
<u>Excavations</u>				
<p>No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling</p>				
<u>Laying, backfilling, bedding, etc. of pipes</u>				
<p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</p>				
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<p>Section No. 2 Bill No. 14 Plumbing and Drainage</p>			R	

	<p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding</p> <p><u>Stainless steelbasins, sinks, wash troughs, urinals, etc.</u></p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Waste unions</u></p> <p>Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings</p> <p><u>"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.</u></p> <p>Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described</p> <p>Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc</p> <p><u>RAINWATER DISPOSAL</u></p> <p><u>HDPE pipes</u></p> <p>1 110mm Pipes m 435</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 14 Plumbing and Drainage</p>			
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	<u>Extra over HDPE pipes for fittings</u>				
2	110mm Bend	No	192		
	<u>"Fulbore" cast iron outlets</u>				
3	110mm Vertical outlet including dome	No	8		
4	110mm 90 degree outlet including dome	No	64		
	<u>SANITARY FITTINGS</u>				
	<u>Sanitary fittings complete with all waste unions, plugs, chains, etc. including building into or fixing to building structure</u>				
	<u>Lixil water Technology T - Grohe Bau or equal and approved</u>				
5	"Grohe Bau" ceramic Urinal (code G-39438000) back inlet flush volume 1 litre including fixation set sanitary ware for installation , inlet connecting set (Code G-37044000) with urinal trap horizontal (Code G-397320000) no compatible with temperature sensor overall size 355 x 552 x 388mm installed complete to manufacturer's specification fixed to walls	No	25		
	<u>LECICO Sanitary ware or equal and approved</u>				
6	"Atlas" 50cm Medical vitreous china hospital basin (Code ATLBASEMED0500UE) wall hung overall size 502 x 177 x 418mm with two tap holes bolted to wall with 2No. 10mm bolts and sealed with anit-fungal silicone sealant including integrated overflow and chain stay hole bolted to walls complete with "Cobra 303/N" waste and "Cobra 309-3/N2" anti theft plug and spindle	No	20		
7	"Atlas" Raised Height Paraplegic LL vitreous china floor mounted paraplegic washdown suite (Code PARSETLLB0RAIBE) care range and matching cistern, including lid, fitments and purpose-made chromium plated side flush lever (Code DUTMECPAR0LLMUS) with MDF seat (Code CHISEASTD0MDFUC)	No	15		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 14				
	Plumbing and Drainage				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

8	"Atlas" Back to Wall Rimless Pan Set, including Pan (Code ATL PANBTW0RIMUE), including MDF Seat (Code CHISEASTD0MDFUC) (SAN013)	No	65		
9	"Lecico" verteous china cloakroom basin size 458 x x 207 x 302mm with two tap holes bolted to walls with 2no. 10mm bolts sealed with silicone sealant complete with waste (Code COB-303/N) slotted with flanged back nut and washer and plug 60mm diameter flange, 77mm long shank, 1 1/4BSP male iron connection end and anti theft plug and spindle (COde COB-309-32/N)wastes with 72mm spindle	No	5		
	<u>"Vaal" or equal and approved</u>				
10	"Lab sink ceramic fire clay laboratory sing (Code 234501WH) size 435 x 355 x 210mm with waste outlet including acid resistant waste fitting (Code COB-8790Z000) fitted to underside of opening in worktop on and including two adjustable underslung brackets (Code 8109Z0)	No	5		
	<u>"Basco Bay Medical" or equal and approved.</u> <u>Basco Solid Surface (031-7008755 / 031 7008755)</u>				
11	600 x 432 x 310 mm Solid surface Medical Hand Wash Basin (Basco Bay Medi Basin) with and including 32mm chromium plated Cobra Watertech unslotted basin waste union (code 308) including 300 x 200mm powder coated brackets formed from 30 x 32 x 3,2mm square hollow section with welded joints to be fitted with nylon type pre-fitted adjustable feet, installed to wall strictly to manufacturers specifications	m	13		
<p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Bill No. 14 Plumbing and Drainage</p>				R	

12	<u>"Maxontop" or equal and approved</u>				
	Purpose made solid surface baby bath from Technosurfaces using Avonite Solid Surfacing integrated into solid surface top complete with under mounted bath (code WAVONITEBABYBATH), size through bowl 680 x 430 x 175mm deep including Waste, Trap & Overflow (Code COB-308/N) unslotted, with flanged back nut and washer and plug 62mm diameter flange, 77mm long shank, 1 1/4 BSP male iron connection end and Anti-theft plug (Code COB-309-32/N) for 32mm waste with 72mm soundle	No	1		
	<u>Avonite Solid Surfacing or equal and approved</u>				
	13 Purpose made Avonite Solid Surfacing complete under mounted wash bowl (code WAVONITELOVALBWL) size through bowl 525 x 370 x 115mm deep fitted under solid surface vanity slab(elsewhere) including 32mm chromium plated (code COB-308/N) unslotted waste union (no chain or stay) and anti-theft chromium plated plug (code COB-309-32/N)	No	50		
	<u>"Franke" or equal and approved</u>				
14	1,2mm thick stainless steel model Oval A wash hand basin size 420 x 340mm with pressed bowl, with two tapholes, with 100mm radius apron and 50mm high splashback, (Code 357456) excluding waste four times bolted to wall with M6 expansion bolts	No	15		
15	Rondo Model RDX610-45 Grade 304 18/10 polished stainless steel centre prep bowl (Code: 1990012), size 450mm diameter x 155mm deep bowl, fitted onto cupboard (elsewhere specified) with 40mm Cobra chromium plated unslotted basin union (code COB -317-40/N) including 70mm diameter flange, 45mm long shank and 1 1/2" BSP male outlet connection and anti-theft plug (Code COB-309-40/N)	No	2		
<p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Bill No. 14 Plumbing and Drainage</p>				R	

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

16	Franke Grade 304 18/10 stainless steel model S2 double end catering sink, size 1500 x 650mm wide with 2No. 500 x 500 x 230mm deep pressed bowls, 150mm high integral splashback to rear, 50 x 10mm turndown with a beaded edge, underside sprayed with vermin proof bitumastic sound deadening and 50mm waste outlet (Code COB-317-40/N), fitted onto 41mm round stainless steel detachable legs with adjustable flanged foot piece and supported on 30 x 30 x 30mm framework and galvanised mild steel backing sheet and fitted with stainless steel slatted under shelf and Anti-theft plug (code COB-309-40/N)	No	2		
17	Franke Grade 304 18/10 stainless steel model S2 double end catering sink, size 1500 x 650mm wide with 2No. 500 x 500 x 230mm deep pressed bowls, 150mm high integral splashback to rear, 50 x 10mm turndown with a beaded edge, underside sprayed with vermin proof bitumastic sound deadening and 50mm waste outlet (Code COB-317-40/N), fitted onto 41mm round stainless steel detachable legs with adjustable flanged foot piece and supported on 30 x 30 x 30mm framework and galvanised mild steel backing sheet and fitted with stainless steel solid under shelf and anti-theft plug (Code COB-309-40/N)	No	2		
18	Franke Grade 304 (18/10) stainless steel T table (Code 359514) size 1850mm x 650mm x 1050mm with 50 x 10mm turndown, stainless steel slatted under shelf (code 356200) size 1500 x 420mm wide, the underside of the unit sprayed with vermin proof bitumastic sound deadening, fixed to wall with anchor bolts 900mm from finished floor level and supported by 2 No. detachable Grade 304 (18/10) stainless steel round legs (code 352658) size 41mm diameter x 1,2mm thick, fitted with chromium plated adjustable flanged foot pieces	No	2		
Carried to Collection				R	
Section No. 2 Bill No. 14 Plumbing and Drainage					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

19	Franke Grade 304 (18/10) stainless steel wall bench size 2100mm x 600mm with 150mm high integral splashback at rear and 50 x 10mm turn down to remaining sides, the underside of the unit sprayed with vermin proof bitumastic sound deadening and supported on 30 x 30 x 3mm painted mild steel angle framework with galvanised mild steel backing sheet	No	2		
20	Grade 304 (18/10) stainless steel wall bench size 1260 x 650mm with 150mm high integral splashback at rear and 50 x 10mm turn down to remaining sides, the underside of the unit sprayed with vermin proof bitumastic sound deadening and supported on 30 x 30 x 3mm painted mild steel angle framework with galvanised mild steel backing sheet and set of 38mm diameter stainless steel detachable legs with adjustable flanged foot pieces	No	4		
21	Grade 304 (18/10) stainless steel wall bench size 1350 x 650mm with 150mm high integral splashback at rear and 50 x 10mm turn down to remaining sides, the underside of the unit sprayed with vermin proof bitumastic sound deadening and supported on 30 x 30 x 3mm painted mild steel angle framework with galvanised mild steel backing sheet and set of 38mm diameter stainless steel detachable legs with adjustable flanged foot pieces	No	4		
22	Grade 304 (18/10) stainless steel wall bench size 1400 x 650mm with 150mm high integral splashback at rear and 50 x 10mm turn down to remaining sides, the underside of the unit sprayed with vermin proof bitumastic sound deadening and supported on 30 x 30 x 3mm painted mild steel angle framework with galvanised mild steel backing sheet and set of 38mm diameter stainless steel detachable legs with adjustable flanged foot pieces	No	1		
Carried to Collection					R
Section No. 2 Bill No. 14 Plumbing and Drainage					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

23	Grade 304 (18/10) stainless steel wall bench size 3280 x 650mm with 150mm high integral splashback at rear and 50 x 10mm turn down to remaining sides, the underside of the unit sprayed with vermin proof bitumastic sound deadening and supported on 30 x 30 x 3mm painted mild steel angle framework with galvanised mild steel backing sheet and set of 38mm diameter stainless steel detachable legs with adjustable flanged foot pieces	No	2		
24	Grade 304 (18/10) stainless steel wall bench size 450 x 600mm without splashback at rear and 50 x 10mm turn down to all sides, the underside of the unit sprayed with vermin proof bitumastic sound deadening and supported on 30 x 30 x 3mm painted mild steel angle framework with galvanised mild steel backing sheet	No	1		
25	Grade 304 (18/10) stainless steel wall bench size 1000 x 600mm without splashback at rear and 50 x 10mm turn down to all sides, the underside of the unit sprayed with vermin proof bitumastic sound deadening and supported on 30 x 30 x 3mm painted mild steel angle framework with galvanised mild steel backing sheet	No	2		
26	Grade 304 (18/10) stainless steel wall bench size 1200 x 600mm without splashback at rear and 50 x 10mm turn down to all sides, the underside of the unit sprayed with vermin proof bitumastic sound deadening and supported on 30 x 30 x 3mm painted mild steel angle framework with galvanised mild steel backing sheet	No	1		
27	Grade 304 (18/10) stainless steel wall bench size 1600 x 600mm without splashback at rear and 50 x 10mm turn down to all sides, the underside of the unit sprayed with vermin proof bitumastic sound deadening and supported on 30 x 30 x 3mm painted mild steel angle framework with galvanised mild steel backing sheet	No	2		
Carried to Collection				R	
Section No. 2 Bill No. 14 Plumbing and Drainage					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

28	Grade 304 (18/10) stainless steel wall bench size 1800 x 600mm without splashback at rear and 50 x 10mm turn down to all sides, the underside of the unit sprayed with vermin proof bitumastic sound deadening and supported on 30 x 30 x 3mm painted mild steel angle framework with galvanised mild steel backing sheet	No	2		
29	Grade 304 (18/10) stainless steel wall bench size 2000 x 600mm without splashback at rear and 50 x 10mm turn down to all sides, the underside of the unit sprayed with vermin proof bitumastic sound deadening and supported on 30 x 30 x 3mm painted mild steel angle framework with galvanised mild steel backing sheet	No	2		
30	Grade 304 (18/10) stainless steel wall bench size 2100 x 600mm without splashback at rear and 50 x 10mm turn down to all sides, the underside of the unit sprayed with vermin proof bitumastic sound deadening and supported on 30 x 30 x 3mm painted mild steel angle framework with galvanised mild steel backing sheet	No	2		
31	Grade 304 (18/10) stainless steel wall bench size 3868 x 600mm without splashback at rear and 50 x 10mm turn down to all sides, the underside of the unit sprayed with vermin proof bitumastic sound deadening and supported on 30 x 30 x 3mm painted mild steel angle framework with galvanised mild steel backing sheet	No	1		
32	Grade 304 (18/10) stainless steel wall bench size 6142 x 600mm without splashback at rear and 50 x 10mm turn down to all sides, the underside of the unit sprayed with vermin proof bitumastic sound deadening and supported on 30 x 30 x 3mm painted mild steel angle framework with galvanised mild steel backing sheet	No	8		
Carried to Collection				R	
Section No. 2 Bill No. 14 Plumbing and Drainage					

33	1,6mm Grade 304 18/10 stainless steel EL bedpan sluice sink (SS045 Left Bowl Code: 350300) (SS045A Right Bowl Code: 350302), size 1130 x 685 x 1050mm with pressed seamless sluice bowl with integral flushing rim, 150mm high integral splashback, 15mm deep hospital bead, 100mm apron, 110mm waste outlet connected to S or P trap (elsewhere specified), on sluice bowl and fixing on pair of stainless steel gallows brackets and legs with adjustable feet, each bracket twice bolted to wall with M8 expansion bolts and each foot twice plugged and screwed to floor, unit supplied complete with Cobra exposed WC chromium plated 35mm Standard Flushmaster flush valve (code COB-FM1-000) with non-hold open feature, vacuum breaker, wall flange, adjustable telescopic connection and 32mm control stop with integral non-return valve inlet including wall plate, non-hold open feature, integral vacuum breaker, 1 1/4" control stop w/integral non- return valve inlet, wall flange, and adjustable telescopic connection with (SANS 1240) with 15mm round bedpan spray nozzle and one 15mm round bottle spray nozzle, with Cobra 514-21B 15mm elbow action valve for each pillar mixer (2 units) including blue indices, 1/4" turn ceramic disc, 1/2" BSP male inlet, and sliding flange, ideal for medical, kitchen and industrial installations (SANS 226 Type 2)	No	2		
34	Zip stainless steel WM42 wall mounted chiller (Code: 2610024), size 345 x 465 x 745mm high, 42 litre capacity with chilled water and GlobalPlus™ water filtration kit, connected to 15mm cold water supply and 220 volt 15 amp electrical power supply, plugged and screwed to wall and fitted under 1 year guarantee	No	5		
Carried to Collection					R
Section No. 2 Bill No. 14 Plumbing and Drainage					

	<u>"Kwikot" or equal and approved</u>				
35	Slop Hopper with cowling size 535x685x510mm high manufactured from 304(18/10) stainless steel 1,2mm thick with a 100mm high integral splash back to rear and both sides, Model HDGX -SLOP 1 for floor and HDGX -SLOP 2 for wall connection. The cone has a integral flushing rim and 100mm Ø stainless steel "S" or "P" trap .Unit fitted with a back entry flush pipe for a standard flush valve. Unit fitted with a hinged bucket grid manufactured from 10mm diameter 304 (18/10) complete with two 40x40mm square stainless steel wall mounting gallows brackets fixed to wall with 4 of anchor bolts. Slop hopper supplied complete with floor mounting bracket as per manufacturers specification,	No	9		
36	Kwikot model BHA900X Single centre bowl special post formed sink size 900 x 595mm manufactured in 1,2mm grade 304 Stainless steel, bowl size 410x350x150mm deep with a 12mm splashback at rear complete with 1 no PVC combination overflow fitting with anti theft plug and Laveteria back entry spreader to fitted to bowl on right hand side with 40mm Cobra Watertech chromium plated unslotted basin union (code 317-40) including 70mm diameter flange, 45mm long shank and 1 1/2" BSP male outlet connection	No	2		
37	Kwikot model BHA1200x595X double End (left or right hand bowls) special post formed sink size 1200 x 595mm wide, manufactured in 1,2mm grade 304 Stainless steel, bowl size 410 x 350 x 150mm deep with a 12mm splashback at rear complete with 2 no:- PVC combination overflow fittings with anti theft plug and Laveteria back entry spreader to fitted to bowl on drainer end with 40mm Cobra Watertech chromium plated unslotted basin union (code 317-40) including 70mm diameter flange, 45mm long shank and 1 1/2" BSP male outlet connection	No	4		
	Carried to Collection			R	
	Section No. 2 Bill No. 14 Plumbing and Drainage				

38	Model UTU1000X single end (Left hand bowl) post formed urine test unit size 1000 x 595mm manufactured in 1,2mm grade 304 stainless steel with 12mm splash back to back, flat top -no fluting- hospital bead only, bowl size 410 x 350 x 150mm deep with a 12mm splashback at rear complete with 1 no:- PVC combination overflow fitting with anti theft plug with 40mm chromium plated unslotted basin waste union (Code COB-317-40/N) including 70mm diameter flange, 45mm long shank and 1 1/2" BSP male outlet connection and anti-theft plug (Code COB-309-40/N) (SS078)	No	2		
	<u>TRAPS, ETC.</u>				
	<u>Chromium plated brass</u>				
39	Bottle trap as "Cobra 365/50" or equal and approved	No	155		
40	Bottle trap Universal with adjustable telescopic waste connection pipe (Code COB-34/N) or equal and approved	No	14		
	<u>Stainless steel</u>				
41	Polyflor ACO shower drain or equal and approved with 110mm vertical outlet stainless steel drain body with removable foul air trap (Code: 405821) including grade 304 stainless steel perforated grating with 150mm square ceramic adaptor top (Code: 97211), connected to 110mm waste pipe and bezel extension (Code: SDP-TE), - all to manufacturers specifications	No	11		
42	Polyflor ACO shower drain or equal and approved with 50mm side outlet stainless steel drain body with removable foul air trap (Code: 405821) including grade 304 stainless steel perforated grating with 150mm square ceramic adaptor top (Code: 405156), connected to 110mm waste pipe and bezel extension (Code: SDP-TE), to suit application bedded in to screed - all to manufacturers specifications	No	4		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 14				
	Plumbing and Drainage				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

43	Rofo Engineering RO 200NW 100 (Code RO200VNW100SQ) floor drain or equal and approved with 110mm vertical outlet, square flange, square cover plate with circular aperture grade AISI 304 stainless steel cast into floor slab flush overall size 240 x 220mm deep with 110mm diameter vertical waste outlet connected to waste pipe - all to manufacturers specifications	No	8		
	<u>Taps, valves, etc or equal and approved with and including connectors and adaptors to copper piping</u>				
44	Angle regulating valve "Cobra 832/350F including 350mm braided flexi hose or equal and approved	No	116		
45	Angle regulating valves - COBRA 232/350 or equal and approved	No	93		
46	15mm Isolating valve	No	10		
47	22mm Isolating valve	No	12		
48	28mm Isolating valve	No	2		
49	35mm Isolating valve	No	2		
50	42mm Isolating valve	No	7		
51	15mm Star Chromium plated hose bib tap (Code COB-207EC-20/N)	No	12		
52	15mm Stella Chromium plated hose bibtap (Code COB-3309ST-15/NV) or equal and approved	No	3		
53	15mm Cobra Medical Tap & Mixer Medical Pillar Tap Elbow action lever (Code: 503-21B/N or R/N) with blue or red indice with 1/4 turn ceramic disc, headpart, flanged backnut , 1/2 BSP male iron connection end,manufactured in accordance with SANS 226:2009 Type 2 (BS 5412)	No	28		
	Carried to Collection			R	
	Section No. 2 Bill No. 14 Plumbing and Drainage				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

54	15mm Stella chromium Tap & Mixer Screw Down plated pillar tap with tapered flow straightened (Code: 3311ST-15/N) with blue or red indices 1/2" BSP male iron connection end CP, manufactured in accordance with SANS 226 Type 1 (BS 5412)	No	40		
55	15mm Stella Tap & Mixer Screw Down Bib Tap (Code COB-3306ST/EXT-15/NV) or equal and approved, with hot and cold indices, 1/2" BSP male iron connection end, chromium plated. SANS 226 Type 2, DZR brass, JASWIC-listed	No	34		
56	15mm Stella Tap & Mixer Screw Down Basin Mixer tap (Code COB-3294ST-15/NV) or equal and approved flow restricted to 9 litres per minute ,1/2BSP female connection ends, chromium plated, SANS 226 Type 2 DZR brass	No	50		
57	15mm Medical Taps Medical Mixer Chrome (Code: COB-515/055-21/N) Medical elbow-action, wall type mixer including 1/4 turn ceramic disc, 1/2BSP male inlet with aerated swan-neck swivel outlet , fixed centre bent inlet connections and hook for swivel outlet, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412)	No	13		
58	15mm Stella Tap & Mixer Screw Down one hole sink mixer chromium plated with aerated swivel outlet (Code COB-3396ST/NV) 1/2" BSP female connection end, SANS 226 Type 2, DZR brass	No	10		
59	15mm Carina Tap & Mixer Screw Down Sink Mixer (Code: COB-171/041CA/NV and S-041) with pillar type aerated swivel outlet, 1/2" BSP male iron connection end chromium plated manufactured in accordance with SANS 226:2004 Type 1.	No	4		
60	Exposed WC chrome plated Junior Flushmaster flushvalve (Code COB-FJ2-210/N)) with non- hold open feature, vacuum breaker, top entry flush pipe, compression pan connector, wall flange, rubber seat buffer	No	9		
Carried to Collection				R	
Section No. 2 Bill No. 14 Plumbing and Drainage					

61	Shower cubicle set comprising 2X Cobra Stella Tap & Mixer Screw Down Stop Tap(Code COB-3328ST/NV) with sliding wall flange, 1/2BSP female iron connection ends chromium plated and extra indices with temperature indicator including Cobra Shower Head Chrome (Code COB-KP2-6), vandal proof shower head, single-function, including 1/2BSP male inlet, 10 litres per minute maximum flow restrictor, self-cleaning spray nozzle and minimum flow pressure 50kPa	m	13		
	<u>LIXIL Water Technology T or equal and approved</u>				
62	"Ghorhe Rapid U roughing-in set for urinal for manual or Tectron infra-red electronic 6V or 230V water group with stop valve flow pressure min 0.5 bar operating pressure max 10 bar flush aid function unit checked ex factory water supply connection 1/2" outer thread connecting box for main supply installation box with gasket fixing points for dry cladding and masonry-in shortable inspection shaft including protection (Code G-37338000) including Nova Cosmopolitan Urinal Wall Plate manual activation for urinal set for final installation for Rapido U or Rapido UMB 116 x 144mm mechanical functional cartridge flow pressure min 0.5 bar operating pressure max 6 bar 1.0 - 6.0 litre adjustable low noise (group 11 according to German noise specification), Grohe StarLite chrome finish (Code G-38804000)	No	25		
63	Grohe Rondo Flush valve for WC (Code G-3715300), Grohe concealed installation 3/4 stop valve 6 - 9 litres adjustable flow pressure range from 1.2 - 5.0 bar flow rate adjustable box for concealed installation with flush elbow pipe adjustable in length without flush plate/actiation, low noise, overall size 415 x 295x 142mm including Grohe Skate Flush plate, stainless steel (Code G-38445SD0), Grohe vertical installation 156 x 197mm push button actuation plastic fixing frame with hidden fixing screws overall size 158 x 42 x 198mm	No	80		
64	Grohe Rapido Universal Pough-In Box 1/2 (Code G-35600000) and Grohterm Thermostat Concealed, installation code G-2407800	No	2		
Carried to Collection				R	
Section No. 2 Bill No. 14 Plumbing and Drainage					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

65	Grohe Relaxa Shower Outlet Elbow 1/2" (Code GRO-G28626000) shower connection 1/2 wall connection 1/2 male thread Grohe StarLight chrome finish with matt chrome cap including Grohe - New Tempesta 100 Shower Rail set 3 Sprays Chrome (Code GRO-G-27644001) consisting of hand shower (28 419) shower rail. 600mm (27 523) Relaxaflex shower hose 1750mm 1/2 x 1/2 (28 154) Grohe EcoJoy 9.5 litre/ minut flow limiter, Grohe DreamSpray perfect spray pattern, Grohe StarLite chrome finish, SpeedClean anti-time system Inner WaterGuide for a longer life ShockProof silicone ring Prevents damage caused by shower failing suitable for instantaneous heater minimum recommended pressure 1.0 bar	No	2		
66	Cobra Watertech Chrome Plated diverter bath sprout with round wall flange (Code COB-2204CH/N) including Grohe Tempesta Wall Holder Set+A/VALVE 1 Spray, Grohe StarLight finish , SpeedClean anti-time system Inner WaterGuide for a longer life, twistfree to prevent hose from twisting (Code G-2751 4001) to be installed with Grohe Relaxa Lead-Through for Pull-out Showers for bath rim installation and under tiled surround lead-through for shower hose 1/2 x 3/8, 2000mm, Grohe StarLight chrome finish (Code G-27151000) and Grohe RelaxaFlex Hose 2000mm for bath rim, installation under tiled surround and shower set, Grohe StarLight chrome finish (Code G-25158000)	No	1		
	<u>"Broen" or equal and approved</u>				
67	Broen Bench Mounted one hole mixer with swivel spout and detachable nozzle (On. 18 510.009)	No	5		
68	Broen Redline double head emergency eye shower including bracket for wall mount (NO. 17 715.000), connected to 15mm water supply, installed strictly to manufacturers specifications	No	1		
Carried to Collection				R	
Section No. 2 Bill No. 14 Plumbing and Drainage					

<u>"Walker Crossweller" or equal and approved</u>					
69	STANDARD Rada 320F hose station complete with rada 320F thermostatic hot/cold water mixer valve, 15m 20 mm hose, hose rack and hose trigger gun as by Walker Crossweller, installed strictly to manufacturers specifications	No	3		
<u>"Admi & Spano" or equal and approved</u>					
70	Adami & Spano over head pre-rinse spray including mixer tap (type PRS001) installed strictly to manufacturers specification	No	2		
<u>VALVE BOX</u>					
71	400 x 400 x 150mm Powder coated standard under ceiling valve box	No	12		
<u>IN LINE PUMPS (Refer Engineer's specification)</u>					
72	Salmson SXM 32-35 or equal and approved 0,3 l/s @ 30kPA in line water circulating pump HWRP-1 complete including temperature sensor to be installed upstream, flange or screw connections, flexible connections, holding bracket, all adaptors, etc	No	8		
73	1,5Kw Inline water heater	No	8		
<u>GEYSERS ETC.</u>					
<u>"Zip Hydroboil" boiling water heater or equal and approved fixed to wall including all connections</u>					
74	7.5 Litre unit	No	3		
<u>Hot water cylinder</u>					
75	150 Litre Approved geyser complete including draincock and safety valve all in accordance with engineers drawing STD-NO1	No	8		
76	12Kw Heat pump including 1000Litre storage container, control panel, completely installed	No	1		
Carried to Collection				R	
Section No. 2					
Bill No. 14					
Plumbing and Drainage					

	<u>Sundries</u>				
77	Geyser tray	No	8		
	<u>SANITARY PIPE WORK</u>				
	<u>uPVC pipes for use above ground</u>				
78	50mm Pipe	m	932		
79	110mm Pipe	m	582		
	<u>Extra over uPVC pipes for fittings:</u>				
80	50mm Bend	No	188		
81	50mm Access bend	No	211		
82	50mm Access junction	No	13		
83	110mm Bend	No	15		
84	110mm Access bend	No	96		
85	110mm Access junction	No	102		
86	110 x 50mm Access reducing junction	No	115		
87	110mm Pan connector	No	78		
	<u>WATER SUPPLY</u>				
	<u>Class 1 copper pipes</u>				
88	15mm Pipes	m	1,571		
89	22mm Pipes	m	1,189		
90	28mm Pipes	m	255		
91	35mm Pipes	m	39		
92	42mm Pipes	m	8		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 14				
	Plumbing and Drainage				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

93	54mm Pipes	m	8		
	<u>Extra over Class 1 copper pipes for brass capillary soldered fittings</u>				
94	15mm Fittings	No	846		
95	22mm Fittings	No	923		
96	28mm Fittings	No	80		
97	35 x 28mm Reducer	No	2		
98	42 x 35mm Reducer	No	24		
99	54 x 42mm Reducer	No	6		
100	35mm Elbow	No	8		
101	42mm Elbow	No	8		
102	54mm Elbow	No	7		
103	35mm Tee	No	4		
104	42mm Tee	No	13		
105	54mm Tee	No	6		
	<u>Extra over Class 1 copper pipes for brass compression fittings</u>				
106	15mm Fittings	No	93		
107	22mm Fittings	No	18		
	<u>FIRE APPLIANCES ETC</u>				
108	"Everyway" fire hose reel or equal and approved complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	20		
109	Fibre glass cabinet to suit above hose reel, fixed to brickwork or concrete	No	20		
	Carried to Collection			R	
	Section No. 2 Bill No. 14 Plumbing and Drainage				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

110	4.5kg CO2 FE fire extinguisher including brackets for wall mounting	No	53		
111	Novec 1230 Gas Fire suppression system (98kg) or equal and approved	No	5		
112	Fire blanket	No	1		
<u>WATER SUPPLIES TO FIRE APPLIANCES</u>					
<u>Galvanised mild steel pipe</u>					
113	25mm Pipes	m	77		
114	50mm Pipes	m	124		
<u>Extra over galvanised pipe for galvanised mildsteel pipe fittings</u>					
115	25mm Fittings	No	86		
116	28mm Galvanized mild steel nipple	No	20		
117	28mm Galvanized mild steel union	No	20		
118	50mm Flanged adaptor	No	15		
119	50mm to 25mm reducer	No	13		
120	50mm Elbow	No	29		
121	50mm Tee	No	8		
<u>Sundries</u>					
122	Painted fire extinguisher backboard	No	53		
123	Paint galvanised mildsteel pipe not exceeding 50mm diameter	m	50		
Carried to Collection				R	
Section No. 2 Bill No. 14 Plumbing and Drainage					

	<u>TESTING</u>				
124	Provide all necessary apparatus, water, etc. and allow for testing the whole of the plumbing and drainage work in Parts and Sections as completed and/or handed over to the satisfaction of the Principal Agent and Local Authorities. All defective work is to be taken out and replaced at the Contractor's expense and the whole retested until found perfect.		Item		
	<u>CHASES, SLEEVES, HOLES, ETC. INCLUDING MAKING GOOD</u>				
125	Chase in wall for pipe not exceeding 50mm diameter	m	3,254		
126	Chase in wall for pipe not exceeding 100mm diameter	m	382		
127	Hole for pipe not exceeding 100mm diameter through 110mm wall	No	136		
128	Hole for pipe not exceeding 100mm diameter through 220mm wall	No	16		
	<u>Core drilling of holes for pipes not exceeding 50mm diameter through reinforced concrete:</u>				
129	Slab, beam, wall, etc. not exceeding 250mm thick	No	103		
	<u>Core drilling of holes for pipes exceeding 50mm and not exceeding 100mm diameter through reinforced concrete</u>				
130	Slab, beam, wall, etc. not exceeding 250mm thick	No	119		
	<u>Core drilling of holes for pipes exceeding 100mm and not exceeding 150mm diameter through reinforced concrete</u>				
131	Slab, beam, wall, etc. not exceeding 250mm thick	No	86		
	Carried to Collection			R	
	Section No. 2 Bill No. 14 Plumbing and Drainage				

**Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works**

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Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

Section No. 2 Bill No. 14 Plumbing and Drainage <u>COLLECTION</u>				
	Page No		Amount	
Brought Forward		R		
Total Brought Forward from Page No.	382			
	383			
Carried Forward to Summary of Section No. 2		R		
Section No. 2 Bill No. 14 Plumbing and Drainage				

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 15</u>			
	<u>PAINTING</u>			
	<u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>PAINT SPECIFICATIONS</u>			
	<u>ON FLOATED PLASTER AND SMOOTH CONCRETE</u>			
	All painting shall be done in accordance with "Plascon" specifications unless otherwise described			
	<u>Prepare and apply one coat Plascon Professional Plaster Primer (PP700) or equal and approved and two coats Plascon Wall & All (WAA) paint or equal and approved colour white or pastel on</u>			
1	Internal plastered walls, columns, recessed bands, etc.	m2	7,473	
2	Ceilings	m2	16	
	<u>Prepare and apply one coat Plascon Professional Plaster Primer (PP700) or equal and approved and two coats Plascon Wall & All (WAA) paint or equal and approved colour dark on</u>			
3	Internal plastered walls, columns, recessed bands, etc.	m2	2,390	
	Carried to Collection			
	Section No. 2 Bill No. 16 Painting			

4	<u>Prepare and apply one coat Plascon Professional Plaster Primer (PP700)" or equal and approved and two coats Plascon Velvaglo Satin (VLO) paint or equal and approved white or pastel on</u>				
	Internal plastered walls, columns, recessed bands, etc.	m2	1,350		
5	<u>Prepare and apply one coat Plascon Plaster Primer (UC 56) or equal and approved and two coats Wall & All (WAA 1) paint or equal and approved on</u>				
	Ceilings	m2	767		
<u>EPOXY PAINT</u>					
6	<u>Prepare and apply 2-part Sikafloor Garage epoxy water based coloured coating or equal and approved strictly to manufacturers specification on</u>				
	Internal plastered walls, columns, recessed bands, etc.	m2	196		
<u>ON PLASTER BOARD</u>					
7	<u>Prepare and apply one coat Plascon Professional Gypsum & Plaster Primer (PP700)" or equal and approved, one coats Plascon Wall & All (WAA) Pure Acrylic paint or equal and approved thinned 20% and one coat Plascon Wall & All Pure Acrylic (WAA) paint or equal and approved on</u>				
	Flush plastered ceilings and cornices.	m2	4,346		
8	<u>Prepare and apply one coat Plascon Professional Gypsum & Plaster Primer (PP700) or equal and approved, one coats Plascon Wall & All (WAA) Pure Acrylic paint or equal and approved thinned 20% and one coat Plascon Wall & All Pure Acrylic (WAA) paint or equal and approved on</u>				
	Flush plastered bulkheads.	m2	477		
<u>ON FIBRE CEMENT</u>					
9	<u>Prepare and apply one coat Plascon Professional Gypsum & Plaster Primer (PP700) or equal and approved, one coats Plascon Wall & All (WAA) Pure Acrylic paint or equal and approved thinned 20% and one coat Plascon Wall & All Pure Acrylic (WAA) paint or equal and approved on</u>				
	Fibre cement ceilings	m2	149		
Carried to Collection				R	
Section No. 2					
Bill No. 16					
Painting					

	<u>Prepare and apply one Plascon Professional Gypsum and Plaster Primer (PP700) or equal and approved, one coat Plascon Wall & All Pure Acrylic (WAA) paint thinned with 20% or equal and approved and one coat Plascon Wall & All (WAA) pure acrylic paint on</u>				
10	Fibre cement eaves closure ceilings	m2	1,361		
	<u>ON METAL</u>				
	<u>Prepare and apply one coat galvanised iron primer (GIP) or equal and approved and two coats Plascon Velvago Satin (VLO) paint or equal and approved on</u>				
11	Door frames.	m2	413		
12	Structural steel members	m2	1,780		
13	Rails, bars, pipes, etc. not exceeding 300mm girth.	m	487		
	<u>ON WOOD</u>				
	<u>Prepare and apply one coat Plascon Woodcare pretreatment (WWP 1), one coat wood primer (UC2) and two coats Velvago Satin (VIO) paint or equal and approved on</u>				
14	Doors.	m2	869		
	<u>VESUS PAINT SPECIALISTS</u>				
	<u>Versus Textured Paint (RC) (011 885 3136)</u>				
	<u>One coat Versus S.P Primer pure acrylic emulsion water based or equal and approved and two coats Versus Textured paint (RC) or equal and approved all in accordance with manufacturer's specification on</u>				
15	On external plastered walls	m2	1,848		
	<u>Versus Aqua Ripple Smooth</u>				
Carried to Collection				R	
Section No. 2					
Bill No. 16					
Painting					

16	On internal plastered walls	m2	3,832	R	
Carried to Collection					
Section No. 2 Bill No. 16 Painting					

**Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works**

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Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

Bill No	SECTION SUMMARY - Building Works	Page No	Amount
1	Foundations	156	
2	Concrete Formwork and Reinforcement	165	
3	Masonry	171	
4	Waterproofing	175	
5	Roof Covering	181	
6	Carpentry	189	
7	Ceilings, Partitions and Access Flooring	206	
8	Floor Coverings, Wall Linings, etc	218	
9	Ironmongery	263	
10	Structural Steelwork	283	
11	Metalwork	351	
12	Plastering	357	
13	Tiling	361	
14	Plumbing and Drainage	385	
15	Glazing	386	
16	Painting	391	
Carried to Final Summary			R
Section No. 2			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 1</u></p> <p><u>GENERAL SITEWORKS</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Descriptions and PreamblesTenderers are referred to Trades to follow hereafter for preambles and full descriptions of materials and items not fully described in this Trade and which shall apply equally to work in this Trade, unless otherwise described.</p> <p>Roadbed prep in-situ material shall not be subjected to traffic loads, including plant in-situ material shall remain undisturbed and shall be compacted with a static weight roller</p> <p>Sub base shall be imported onto the roadbed by end tipping. No haulage vehicles shall encroach on the compacted roadbed.</p> <p>All references to SABS 1200 is purely for technical specification. Measurement and payment for this work will be in terms of the South African Standard System for Measuring Building Work.</p> <p>Trade Names and Proprietary Products: All descriptions or clauses where trades names or proprietary products are specified, are deemed to include the phrase "or equal and approved".</p>			
	Carried to Collection		R	
	<p>Section No. 3</p> <p>Bill No. 1</p> <p>General Siteworks</p>			

<p>It would be a requirement for the contractor to prepare / supply samples / panels of all items herein specified at the commencement of relevant trades to serve as officially approved quality reference standards</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include for bulking and loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the site</p> <p><u>SITE CLEARANCE, ETC.</u></p> <p><u>Site clearance</u></p> <p>1 Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc measured 1m above ground level, including carting away all material to a dumping site to be located by the contractor</p> <p>2 Stripping average 100mm thick layer of top soil and stockpiling on site</p> <p><u>REMOVAL OF TREES ETC</u></p> <p><u>Taking out and removing, grubbing up roots and filling in holes</u></p> <p>3 Tree stump exceeding 200mm and not exceeding 500mm girth including excavating and removing of roots, filling hole with clean dry earth filling and compacting to road/sidewalk specification</p> <p>4 Tree stump exceeding 500mm and not exceeding 1000mm girth including excavating and removing of roots, filling hole with clean dry earth filling and compacting to road/sidewalk specification</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Bill No. 1 General Siteworks</p>			
	m2	121,300	
	m3	12,130	
	No	14	
	No	12	
			R

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

5	Tree stump exceeding 1000mm and not exceeding 2000mm girth including excavating and removing of roots, filling hole with clean dry earth filling and compacting to road/sidewalk specification	No	8		
	<u>BULK EXCAVATION, FILLING, ETC</u>				
	<u>Open face excavation in earth over sloping site including carting away to a dumping site located by the contractor</u>				
6	Open face excavation	m3	17,036		
	<u>Excavation in earth</u>				
7	Not exceeding 2m deep	m3	10,881		
	<u>Extra over bulk excavation in earth for excavation in</u>				
8	Soft rock	m3	852		
9	Hard rock	m3	426		
	<u>Extra over all excavations for carting away</u>				
10	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	1,887		
	<u>Keeping excavations free of water</u>				
11	Keeping excavations free of all water other than subterranean water		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site (not compacted)</u>				
12	Over site	m3	15,149		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>				
13	Over site to form platforms	m3	10,881		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 1				
	General Siteworks				

<u>SLEEVES</u>					
<u>UPVC SLEEVES</u>					
14	110mm sleeves laid in ground not exceeding 1m deep	m	120		
15	160mm sleeves laid in ground not exceeding 1m deep	m	90		
<u>Prescribed density tests on filling:</u>					
Note : Prices for soil tests must be included in the contractor's rates for earthworks items.					
Additional soil tests to be carried out as directed by the Engineer:					
16	Modified AASHTO density tests	No	205		
Carried to Collection					
Section No. 3 Bill No. 1 General Siteworks					

**Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works**

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 2</u>			
	<u>ROADS, PARKING, ETC</u>			
	<u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Carting away of excavated material:</u>			
	Descriptions of carting away of excavated material shall be deemed to include for bulking and loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the site.			
	<u>EARTHWORKS</u>			
	<u>Bulk excavation, filling, etc.</u>			
1	Open face excavation in compacted earth to reduce levels not exceeding 2m deep and stock pile on site within a 200m radius in accordance with the Engineers instruction	m3	25,289	
2	Earth filling obtained from excavations and/or stock piles on site including hauling from perimeter of excavation or stock pile and compact to 98% modified AASHTO density in 150mm thick layers	m3	25,289	
	<u>Base course</u>			
3	150mm Thick selected natural gravel (Type C4 from commercial sources) including stabilization with 3% cement supplied by the Contractor and spread, level, water and compact to 98% modified AASHTO density and trim to level	m3	2,709	
	Carried to Collection			
	Section No. 3 Bill No. 2 Roads, Parking, Etc		R	

	<u>Sub-base course</u>				
4	150mm Thick selected natural gravel (Type G5 from commercial sources) supplied by the Contractor and spread, level, water and compact to 95% modified AASHTO density and trim to level	m3	3,357		
5	150mm Thick selected natural gravel (Type G7 from commercial sources) supplied by the Contractor and spread, level, water and compact to 95% modified AASHTO density and trim to level	m3	1,521		
	<u>Compaction of surfaces, etc</u>				
6	Compaction of ground surface under paving, etc including scarifying to a depth of 150mm, breaking down oversized material and compacting to 93% modified "AASHTO" density	m2	32,520		
	<u>Soil insecticide</u>				
7	Under surface beds, paving, etc. including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	32,520		
	<u>Prescribed density tests on filling</u>				
8	"Modified AASHTO Density" test	No	30		
	<u>PAVING</u>				
	Paving is to be laid in accordance with SABS 1200MJ, SABS 1058 and the Concrete Masonry Association's specifications.				
	Paving is to be laid in patterns on 25mm (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere).				
	Clean sand is to be swept into joints between road stones.				
	Carried to Collection			R	
	Section No. 3 Bill No. 2 Roads, Parking, Etc				

	<u>200 x 100 x 70mm thick Inca DZZ70 exposed aggregate (granite mixed with table mountain sandstone) standard interlocking precast concrete pavers to match existing, bedded on and including 25mm thick bed of river sand:</u>				
9	Paving to roads, parking areas, etc. to falls including any consequent cutting	m2	18,058		
10	Extra for edge blocks including mass concrete haunching, etc.	m	2,683		
	<u>200 x 100 x 60mm Thick standard interlocking precast concrete pavers, bedded on and including 25mm thick bed of river sand:</u>				
11	Paving to pavements, sidewalks, etc. to falls including any consequent cutting	m2	2,437		
12	Extra for edge blocks including mass concrete haunching, etc.	m	801		
	<u>60mm Bosum interlocking Concrete block paving composed of 60mm thick Kalahari coloured interlocking precast concrete blocks bedded on and including 25mm thick bed of river sand:</u>				
13	Paving to pavements, sidewalks, etc. to falls including any consequent cutting	m2	172		
14	Extra for edge blocks including mass concrete haunching, etc.	m	184		
	<u>Paving of 50mm Corobrik Burgundy paving bricks with butt joints on 25mm thick river sand bed with sand and cement mixture swept into joints and hosed down including preparation of ground or filling</u>				
15	Paving to pavements, sidewalks, etc. to falls including any consequent cutting	m2	9,926		
16	Extra for edge blocks including mass concrete haunching, etc.	m	3,305		
Carried to Collection				R	
Section No. 3 Bill No. 2 Roads, Parking, Etc					

	<u>Paving of 65mm Corobrik Burgundy paving bricks with butt joints on 25mm thick river sand bed with sand and cement mixture swept into joints and hosed down including preparation of ground or filling</u>				
17	Paving to pavements, sidewalks, etc. to falls including any consequent cutting	m2	616		
18	Extra for edge blocks including mass concrete haunching, etc.	m	154		
	<u>Lafarge Artivia concrete 125mm thick installed all in accordance with the manufacturers specification, including expansion joints and joint fillers</u>				
19	Concrete laid in panels	m2	1,209		
	<u>25mPa concrete paving 125mm thick laid in panels including powerfloating and joint sealers</u>				
20	Concrete laid in panels	m2	102		
	<u>Precast concrete curbing</u>				
21	Fig 8 Kerbing including concrete backing	m	1,426		
22	Fig 3 Kerbing including concrete backing	m	1,298		
23	Channel formed of two Fig14 kerb laid flat	m	306		
24	Channel formed of one Fig14 and one fig 8 kerb laid flat	m	326		
	<u>ROAD MARKING</u>				
25	100mm Wide lines (broken or unbroken) with an approved road marking paint	m	8,500		
26	300mm Wide lines (broken or unbroken) with an approved road marking paint	m	3,500		
27	Special character symbols with an approved road marking paint.	m2	300		
	Carried to Collection			R	
	Section No. 3 Bill No. 2 Roads, Parking, Etc				

**Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works**

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 3</u>			
	<u>STORMWATER, SOIL DRAINAGE AND WATER SUPPLY</u>			
	<u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
	<u>STORMWATER</u>			
	<u>CULVERTS</u>			
	<u>The following in culverts</u>			
	<u>"Soft excavation" not exceeding 2 metres deep below natural or reduced ground level for:</u>			
1	Trenches for culvert	m3	46	
	<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	29	
	<u>Risk of collapse of excavations</u>			
3	Allow for risk of collapse to sides of trench and hole excavations not exceeding 1,5m deep	m2	97	
	<u>Keeping excavations free of water</u>			
4	Keeping excavations free of all water other than subterranean water	Item		
	Carried to Collection		R	
	Section No. 3			
	Bill No. 3			
	Stormwater Drainage, Soil Drainage and Water Suppl			

	<u>Earth filling of G5 material supplied by the contractor compacted to 98% Mod. AASHTO density</u>				
5	Under base slab, etc	m3	10		
	<u>REINFORCED CONCRETE</u>				
	<u>30MPa Concrete:</u>				
6	Base slab	m3	5		
7	Wing walls	m3	0.2		
	<u>FORMWORK</u>				
	<u>Rough formwork to:</u>				
8	Sides of wing walls	m2	3		
9	Edges, risers, ends and reveals not exceeding 300 mm high or wide circular on plan.	m	22		
	<u>CONCRETE SUNDRIES</u>				
	<u>Test Blocks:</u>				
10	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	No	4		
	<u>STEEL REINFORCEMENT</u>				
	<u>Mild steel rod reinforcement to structural concrete work</u>				
11	Rebar- all diameters	t	0.13		
	<u>Fabric reinforcement with minimum 400mm wide overlaps</u>				
12	Type Ref 395 reinforcement in concrete surface beds, slabs, etc.	m2	33		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 3				
	Stormwater Drainage, Soil Drainage and Water Suppl				

	<u>PRECAST CONCRETE</u>				
13	Number 2 of 770mm wide x 470mm deep precast concrete culverts	m	19		
	<u>CHANNELS</u>				
	<u>Stone pitching consisting of 125mm 20mPa concrete and 150mm diameter intermittent stone hornfell packing with 20mm gaps between stones</u>				
14	750mm wide dished channel	m	271		
	<u>UPVC pipes laid in ground</u>				
15	160mm Pipes laid not exceeding 1m deep	m	210		
16	Ditto, exceeding 1m and not exceeding 2m	m	155		
	<u>UPVC fittings</u>				
17	160mm bend	No	69		
18	160mm junction	No	74		
19	160mm Rodding eye	No	48		
	<u>Subsoil drain formed of slotted pipe, bidum around 300 x 300mm stone filling including excavation and backfilling</u>				
20	110mm Subsoil pipe	m	352		
21	160mm subsoil pipe	m	265		
	<u>UPVC fittings</u>				
22	160mm End cap	No	20		
23	160 x 110mm junction	No	20		
24	160mm Junction	m	4		
25	160mm Rodding eye	No	4		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 3				
	Stormwater Drainage, Soil Drainage and Water Suppl				

	<u>Precast concrete pipes laid in ground:</u>				
26	600mm Diameter precast reinforced concrete pipe to SABS 677 Type SC Class 100D with spigot and socket joints including laying in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth 1200mm wide exceeding 1000mm but not exceeding 2000mm deep and backfilling to 95 modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	10		
27	Ditto, exceeding 1000mm but not exceeding 2000mm deep	m	17		
28	Ditto, exceeding 2000mm but not exceeding 3000mm deep	m	98		
29	Ditto, exceeding 3000mm but not exceeding 4000mm deep	m	18		
30	450mm Diameter precast reinforced concrete pipe to SABS 677 Type SC Class 100D with spigot and socket joints including laying in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth 1200mm wide not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	35		
31	Ditto, exceeding 1000mm but not exceeding 2000mm deep	m	62		
32	Ditto, exceeding 2000mm but not exceeding 3000mm deep	m	157		
33	Ditto, exceeding 3000mm but not exceeding 4000mm deep	m	89		
	Carried to Collection			R	
	Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Suppl				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

34	375mm Diameter precast reinforced concrete pipe to SABS 677 Type SC Class 100D with spigot and socket joints including laying in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth 1200mm wide exceeding 1000mm but not exceeding 2000mm deep and backfilling to 95 modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	122		
35	Ditto, exceeding 1000mm but not exceeding 2000mm deep	m	298		
36	Ditto, exceeding 2000mm but not exceeding 3000mm deep	m	67		
37	Ditto, exceeding 3000mm but not exceeding 4000mm deep	m	5		
38	300mm Diameter precast reinforced concrete pipe to SABS 677 Type SC Class 100D with spigot and socket joints including laying in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth 1200mm wide not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	252		
39	Ditto, exceeding 1000mm but not exceeding 2000mm deep	m	652		
40	Ditto, exceeding 2000mm but not exceeding 3000mm deep	m	386		
<u>The following in pre-fabricated manholes:</u>					
Carried to Collection					R
Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Suppl					

	<u>Excavate in compacted earth for and including circular type precast concrete manhole formed of 1420mm x 1420mm x 150mm thick 25Mpa concrete slab with manhole formed of 1000mm diameter (internally) precast concrete rings with joints sealed with bituminous putty with and including precast concrete cover slab 150mm thick and 3 No. precast concrete spacer rings 750mm diameter with opening for and including heavy duty road type manhole cover and lockable frame as type 4 set in cement mortar and sealed in tallow and with 25Mpa concrete benching in bottom floated smooth with falls to and including 150mm vitrified clay channels and finished on all exposed surfaces with 25mm thick granolithic with angles rounded including all necessary excavation, backfilling, carting away, dewatering, formwork, etc.</u>				
41	Manhole not exceeding 1000mm deep	No	11		
42	Manhole exceeding 1000mm but not exceeding 1500mm deep	No	9		
43	Manhole exceeding 1500mm but not exceeding 2000mm deep	No	13		
44	Manhole exceeding 2000mm but not exceeding 2500mm deep	No	5		
Carried to Collection					
Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Suppl					R

	<u>Excavate in compacted earth for and including circular type precast concrete manhole formed of 1095mm x 1095mm x 150mm thick 25Mpa concrete slab with lower chamber formed of 1000mm diameter (internally) precast concrete rings with joints sealed with bituminous putty with 3 No. precast concrete spacer rings 750mm diameter and with 25Mpa concrete benching in bottom floated smooth with falls to and including 150mm vitrified clay channels and finished on all exposed surfaces with 25mm thick granolithic with angles rounded and upper chamber formed of 675mm diameter (internally) precast concrete rings with joints sealed with bituminous putty with and including precast concrete cover slab 150mm thick and 1 No. precast concrete spacer ring 750mm diameter with opening for and including heavy duty road type manhole cover and lockable frame as type 4 set in cement mortar and sealed in tallow including all necessary excavation, backfilling, carting away, dewatering, formwork, etc.</u>				
45	Manhole exceeding 2500mm but not exceeding 3000mm deep	No	7		
46	Manhole exceeding 3000mm but not exceeding 3500mm deep	No	6		
	<u>Sumps, catch-pits, inspection chambers, kerb inlets, etc.:</u>				
47	Excavate in compacted earth for and build kerb inlet catch-pit size 960 x 1762 x 800mm deep internally to invert with one brick wall sides in engineering bricks on and including 25Mpa in-situ concrete base 150mm thick with ref 245 mesh reinforcing, rendered smooth internally in 1:5 cement mortar, benching up bottom in 25Mpa concrete finished off smooth and 100mm thick 25Mpa concrete cover slab with ref 245 mesh reinforcing size 500 x 1300mm rebated and holed for and including 2 no. 450 x 600mm heavy duty cast iron grating and frame and 2 no. 600mm diameter hole for outlet pipe including all formwork, reinforcing, backfilling, compacting, etc.	m	45		
Carried to Collection				R	
Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Supply					

48	Excavate in compacted earth for and build kerb inlet catch-pit size 960 x 1762 x 800mm deep internally to invert with one brick wall sides in engineering bricks on and including 25Mpa in-situ concrete base 150mm thick with ref 245 mesh reinforcing, rendered smooth internally in 1:5 cement mortar, benching up bottom in 25Mpa concrete finished off smooth and 100mm thick 25Mpa concrete cover slab with ref 245 mesh reinforcing size 1500 x 2300mm rebated and holed for and including 2 no. 450 x 600mm heavy duty cast iron grating and frame and 2 no. 600mm diameter hole for outlet pipe including all formwork, reinforcing, backfilling, compacting, etc.	m	8		
49	Excavate in compacted earth for and build kerb inlet catch-pit size 2780 x 1000 x 1450mm deep internally to invert with one brick wall sides in engineering bricks on and including 25Mpa in-situ concrete base 150mm thick with ref 245 mesh reinforcing, rendered smooth internally in 1:5 cement mortar, benching up bottom in 25Mpa concrete finished off smooth and 75mm thick 25Mpa concrete cover slab with ref 245 mesh reinforcing size 3000 x 1323mm on 80 x 80 x 5mm angle section frame including leaving or forming opening size 1000 x 170mm high in wall for inlet formed of a 75mm thick 25Mpa concrete base size 1000 x 500mm wide set sloping and 600mm diameter hole for outlet pipe including all formwork, reinforcing, backfilling, compacting, etc.	m	35		
<u>THE FOLLOWING IN STORMWATER POND</u>					
<u>Open face excavation in earth over sloping site</u>					
50	Open face excavation	m3	2,928		
<u>Extra over all excavations for carting away</u>					
51	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	2,024		
Carried to Collection				R	
Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Supply					

	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>				
52	Over site to pond embankments	m3	904		
	<u>Clear river sand filling</u>				
53	Filling to bottom of pond	m3	480		
	<u>Keeping excavations free of water</u>				
54	Keeping excavations free of all water other than subterranean water		Item		
	<u>Pond structures</u>				
55	125mm 25MPa concrete apron including formwork and 193 mesh reinforcing	m2	95		
56	Stone pitching consisting of 125mm 20mPa concrete and 150mm diameter intermittent stone hornfell packing with 20mm gaps between stones	m2	820		
57	Pond outlet structure 2700 x 2700 x 250mm 25mPa, 2000 x 2000 x 1500mm internal dimension chamber formed of 200mm thick 25mPa walls including all excavation, filling, formwork and reinforcing (80kg per m3), including RS40 rectagrid grating fitted in 30 x 30mm framing as per detail on attached drawing no P3086-004-100	No	1		
58	Pond non return flap consisting of two 6mm galvanised plates each 650mm x 800mm with and including "conveyor" belt in between fixed together with 6mm bolt and nuts, the whole fixed to 50 x 50 x 6mm galvanised angle including fixing to concrete wall as per detail on attached drawing no P3086-004-100	No	1		
Carried to Collection				R	
Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Suppl					

59	Gabion wall formed of "Gabion Baskets" or equal and approved 2,7mm diameter Class A galvanised 80 x 100mm hexagonal woven gabion mesh baskets, size 500 x 1000 x 500mm high with a minimum density of 1,6 tons/m³, filled in with and including selected clean, hard, unweathered grey granite rock, constructed and installed in strict accordance with SANS1580:2005, SANS1200DK & the manufacturer's instructions	m2	68		
	<u>Overland Escape Pond Bank</u>				
	<u>Base course</u>				
60	150mm Thick selected natural gravel (Type C5 from commercial sources) including stabilization with 3% cement supplied by the Contractor and spread, level, water and compact to 98% modified AASHTO density and trim to level	m3	6		
	<u>Compaction of surfaces, etc</u>				
61	Compaction of ground surface under paving, etc including scarifying to a depth of 150mm, breaking down oversized material and compacting to 93% modified "AASHTO" density	m2	42		
	<u>140 Armorfex lining or equal and approved bedded on and including 20mm thick bed of river sand:</u>				
62	Lining to overland escape bond bank to falls including any consequent cutting	m2	42		
	<u>Geotextile Fabric</u>				
63	Type 2 Geotextile or equal and approved under lining on sand bedding	m2	42		
64	Ceocell type Geotextile or equal and approved three-dimensional geosynthetics to provide physical soil confinement	m2	2,255		
65	Soil Saver type Geotextile or equal and approved biodegradable 100% jute yarn woven to form a 65% open mesh structure for erosion control	m2	1,659		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 3				
	Stormwater Drainage, Soil Drainage and Water Suppl				

	<u>GABIONS</u>				
	<u>Gabion wall formed of "Gabion Baskets" or equal approved 2.7mm diameter Class A galvanised 80 x 100mm hexagonal woven gabion mesh baskets, size 1000 x 1000 x 1000mm high with a minimum density of 1,6 tons/m³, filled in with and including selected clean, hard, unweathered grey granite rock, constructed & installed in strict accordance with SANS1580:2005, SANS1200DK & the manufacturer's instructions:</u>				
66	1000mm Wide wall	m2	350		
67	1000mm Wide wall circular on plan	m2	78		
	<u>STORMWATER BERMS</u>				
	<u>Earth filling obtained from excavations and/or stockpiles on site including hauling, spread, level, water and compact to 90% Mod. AASHTO density in layers not exceeding 150mm thick</u>				
68	Filling to embankment or berm at not exceeding 60 degree slope	m3	2,290		
	<u>Excavation other than bulk</u>				
69	Excavate in compacted earth not exceeding 2m deep for trenches, ground beams, etc	m3	408		
	<u>SOIL DRAINAGE</u>				
	<u>uPVC pressure piping to SABS 966 with solvent welded joints (Diameters given are outside diameters)</u>				
70	200mm Diameter Class 12 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth 1000mm wide exceeding 1000mm but not exceeding 2000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	1,134		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 3				
	Stormwater Drainage, Soil Drainage and Water Suppl				

<u>uPVC pressure piping to SABS 966 with solvent welded joints (Diameters given are outside diameters)</u>					
71	160mm Diameter Class 34 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth 1000mm wide exceeding 1000mm but not exceeding 2000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	252		
72	160mm Diameter Class 34 pipe laid in existing trenches exceeding 1000mm but not exceeding 2000mm deep (excavation, backfilling, etc. measured elsewhere)	m	596		
<u>Extra on uPVC pipes for fittings:</u>					
73	160mm End cap	No	13		
74	160mm Rodding eye	No	2		
75	160mm Y Junction	No	18		
76	160mm Bend	No	29		
77	160mm Access junction	No	17		
<u>The following in pre-fabricated manholes:</u>					
<p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Suppl</p>					

	<u>Excavate in compacted earth for and including circular type fibre glass manhole formed of 1420mm x 1420mm x 150mm thick 25Mpa concrete slab with manhole formed of 1200mm diameter (internally) fibre glass tube and factory base, polypropylene steps at 300mm centres with and including precast concrete cover slab 150mm thick with opening for and including heavy duty road type manhole cover and lockable frame as type 4 set in cement mortar and sealed in tallow and with 25Mpa concrete benching in bottom floated smooth with falls to and including 150mm vitrified clay channels including all necessary excavation, backfilling, carting away, dewatering, formwork, etc.</u>				
78	Manhole exceeding 1500mm but not exceeding 2000mm deep	No	7		
79	Manhole exceeding 2000mm but not exceeding 2500mm deep	No	9		
	<u>Inspection chambers, etc.</u>				
80	275 x 275mm "ABC" cast iron bent cleaning eye cover and frame as per SABS 558 Type 14A jointed to top of 160mm diameter pipe including cement concrete surround size 450 x 450 x 210mm	No	4		
	<u>SEWER PUMP STATION</u>				
	<u>ALTERATIONS TO EXISTING WORK</u>				
	<u>Break opening in existing 300mm Reinforced concrete and repair all surfaces</u>				
81	1000 x 1600mm High opening cut into existing concrete wall of sewer pump station	No	4		
	<u>EXCAVATION</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
82	Holes	m3	706		
	Carried to Collection			R	
	Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Suppl				

	<u>Excavation in earth exceeding 2m not exceeding 4m deep</u>				
83	Holes	m3	706		
	<u>Excavation in earth exceeding 4m not exceeding 6m deep</u>				
84	Holes	m3	706		
	<u>Excavation in earth exceeding 6m not exceeding 8m deep</u>				
85	Holes	m3	64		
	<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 95% Mod AASHTO density</u>				
86	Exceeding 500mm and not exceeding 1500mm deep for placing and removing formwork to walls etc. 800mm away from excavated face	m3	89		
87	Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls etc. 800mm away from excavated face	m3	89		
88	Exceeding 3000mm and not exceeding 4500mm deep for placing and removing formwork to walls etc. 800mm away from excavated face	m3	38		
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
89	Soft rock	m3	218		
90	Hard rock	m3	109		
	<u>Extra over all excavations for carting away</u>				
91	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	1,281		
Carried to Collection				R	
Section No. 3					
Bill No. 3					
Stormwater Drainage, Soil Drainage and Water Suppl					

	<u>Keeping excavations free of water:</u>				
92	Keeping excavations free of water other than subterranean water.		Item		
	<u>Risk of collapse of excavations</u>				
93	Sides of trench and hole excavations not exceeding 1,5m deep	m2	112		
94	Sides of trench and hole excavations exceeding 1,5m not exceeding 3m deep	m2	112		
95	Sides of trench and hole excavations exceeding 3m not exceeding 4,5m deep	m2	112		
96	Sides of trench and hole excavations exceeding 4,5m not exceeding 6m deep	m2	112		
97	Sides of trench and hole excavations exceeding 6m not exceeding 7,5m deep	m2	13		
	<u>FILLING ETC</u>				
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>				
98	Backfilling to trenches, holes, etc	m3	216		
	<u>Earth filling of G7 material supplied by the contractor, compacted in not exceeding 200mm layers to 95% modified AASHTO density</u>				
99	Above sewer pump station slab, etc.	m3	900		
	<u>Compaction of surfaces</u>				
100	Compaction of surfaces under floor, bases, etc including scarifying for a depth of 150mm, breaking down oversized material, adding suitable material where necessary and compacting to 98% MOD AASHTO density.	m2	351		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 3				
	Stormwater Drainage, Soil Drainage and Water Suppl				

	<u>Prescribed density tests on filling:</u> Note : Prices for soil tests must be included in the contractor's rates for earthworks items. Additional soil tests to be carried out as directed by the Engineer:				
101	Modified AASHTO density tests	No	12		
	<u>PROTECTION AGAINST TERMITES</u> <u>Soil poisoning</u>				
102	Soil insecticide under floors, paving, etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	351		
103	Soil insecticide to bottoms of trenches, holes, etc	m2	460		
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>15MPa/20mm concrete</u>				
104	Surface blinding under footings and bases	m3	26		
	<u>30MPa/20mm concrete</u>				
105	In slabs	m3	99		
106	In bases	m3	105		
107	In walls	m3	111		
	<u>TEST CUBES</u>				
108	Making and testing 150 x 150 x 150mm concrete strength test cubes (Set of Three)	No	64		
	<u>Class F2 Smooth Formwork to sides</u>				
109	To walls	m2	707		
	<p style="text-align: center;">Carried to Collection</p>			R	
	Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Suppl				

110	Edges, risers, ends and reveals not exceeding 300 mm high or wide	m	112		
	<u>Class F2 Smooth Formwork to soffits</u>				
111	To slabs	m2	307		
	<u>Boxing in or out smooth formwork to form</u>				
112	300 x 300mm Horizontal nib at corner to base and wall	m	68		
113	300 x 300mm Horizontal nib at corner to slab and wall	m	68		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
114	Rebar- all diameters	†	23.98		
	<u>Circular type precast concrete manhole formed of 1000mm diameter (internally) precast concrete rings with joints sealed with bituminous putty with and including precast concrete cover slab 150mm thick including 550mm diameter type 2A ductile iron manhole cover and frame with calcimite iron steps at 300mm centres manhole set in cement mortar and sealed in tallow and with 25Mpa concrete benching around rings on concrete slab and finished on inside with bagging and plastered externally including formwork, etc. to form access chamber to sewer pump station</u>				
115	Manhole exceeding 2500mm but not exceeding 3000mm deep	No	4		
	<u>Sundry steel work</u>				
116	140mm Long calcimite iron steps cast into concrete walls	No	52		
	<u>WATER RETICULATION</u>				
Carried to Collection				R	
Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Suppl					

	<u>HDPE polyethylene Class 16 pipe with O-ring screw type fittings:</u>				
117	160mm Diameter Class 16 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	652		
118	Ditto, but in existing trenches, backfilling etc. measured elsewhere	m	157		
119	110mm Diameter Class 16 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	202		
120	Ditto, but in existing trenches, backfilling etc. measured elsewhere	m	22		
121	75mm Diameter Class 12 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	42		
122	75mm Diameter Class 12 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	72		
Carried to Collection				R	
Section No. 3					
Bill No. 3					
Stormwater Drainage, Soil Drainage and Water Supply					

	<u>Class 16 HDPE fittings including concrete thrust blocks</u>				
123	160mm Bend	No	18		
124	160mm Tee	No	12		
125	160 to 110mm reducer	No	9		
126	160 to 75mm reducer	No	3		
127	110 to 75mm reducer	No	6		
	<u>Valves, etc</u>				
128	160mm Scouring valve	No	1		
129	160mm Isolating Valve	No	2		
130	110mm Isolating valve	No	5		
131	160mm Air valve	No	2		
	<u>THE FOLLOWING IN BULK WATER STORAGE</u>				
	<u>Dwarf walls</u>				
	<u>"Soft excavation" not exceeding 2 metres deep below natural or reduced ground level for:</u>				
132	Trenches	m3	114		
	<u>Extra over all excavations for carting away</u>				
133	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	57		
	<u>Risk of collapse of excavations</u>				
134	Allow for risk of collapse to sides of trench and hole excavations not exceeding 1,5m deep	m2	285		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 3				
	Stormwater Drainage, Soil Drainage and Water Suppl				

	<u>Keeping excavations free of water</u>				
135	Keeping excavations free of all water other than subterranean water		Item		
	<u>REINFORCED CONCRETE</u>				
	<u>30MPa Concrete cast against excavated surfaces in:</u>				
136	Strip footings	m3	57		
	<u>30MPa Concrete:</u>				
137	Dwarf walls	m3	56		
	<u>FORMWORK</u>				
	<u>Smooth formwork to:</u>				
138	Sides of Dwarf walls	m2	447		
	<u>STEEL REINFORCEMENT</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
139	Various Diameter bars	t	0.79		
	<u>High tensile steel reinforcement to structural concrete work</u>				
140	Various Diameter bars	t	7.12		
	<u>CONCRETE SUNDRIES</u>				
	<u>50MPa non shrink gout</u>				
141	50mm Thick x 100mm wide on top of concrete dwarf walls, including forming of mitred top	m	238		
	<u>METALWORK</u>				
	<u>Mild steel</u>				
142	100 x 10mm Flat bar including 200mm lugs at 500mm centres cast into top of concrete	m	238		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 3				
	Stormwater Drainage, Soil Drainage and Water Suppl				

	<u>HDPE polyethelene Class 12 pipe with O-ring screw type fittings:</u>			
143	110mm Diameter Class 16 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	20	
144	Connect to existing 160mm UPVC pipe including all necessary fittings for new 110mm Class 12 UPVC pipe	No	2	
	<u>Valves, etc</u>			
145	110mm Isolating valve	No	2	
	<u>TANKS, ETC</u>			
	<u>Hot dipped galvanised sectional tank complete as per specification:</u>			
146	Galvanised sectional water tank 18 300mm x 16 650mm x 3660mm high completely installed	No	1	
	<u>Valves, etc</u>			
147	80mm Brass gate valve	No	1	
148	100mm Brass gate valve	No	1	
149	200mm Brass gate valve	No	2	
	<u>FIRE WATER RETICULATION</u>			
Carried to Collection				R
Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Suppl				

	<u>HDPE polyethylene Class 16 pipe with O-ring screw type fittings:</u>				
150	160mm Diameter Class 16 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	827		
151	Ditto, but in existing trenches, backfilling etc. measured elsewhere	m	237		
152	110mm Diameter Class 16 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	111		
153	Ditto, but in existing trenches, backfilling etc. measured elsewhere	m	15		
154	75mm Diameter Class 16 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	122		
155	75mm Diameter Class 16 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	10		
Carried to Collection				R	
Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Suppl					

	<u>Class 16 HDPE fittings including concrete thrust blocks</u>				
156	160mm Bend	No	14		
157	160mm Tee	No	16		
158	160 to 110mm reducer	No	9		
159	160 to 75mm reducer	No	7		
160	110 to 75mm reducer	No	4		
	<u>Valves, etc</u>				
161	160mm Scouring valve	No	1		
162	160mm Non return valve	No	1		
163	160mm Air valve	No	1		
164	160mm Bulk water meter	No	1		
165	Pendant type booster connection with two 65mm Bayonet couplings with end caps, 150mm x 2400KPA pressure meter	No	1		
166	100mm Fire hydrant including concrete pedestal	No	11		
	<u>Fire hydrant pedestals</u>				
167	Unreinforced concrete hydrant pedestal 900mm high cast around vertical pipe with bottom 300mm below ground, 300 x 300mm square at base and tapering to octagonal shaped top 200 x 200mm overall, including necessary excavation, formwork and two coats paint to exposed surfaces	No	11		
	<u>Sundries</u>				
168	Unreinforced concrete in thrust blocks at bends, tees, etc including necessary extra excavation, formwork, etc	m3	12		
	Carried to Collection			R	
	Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Suppl				

<p>169</p>	<p>Testing:</p> <p>Provide all necessary apparatus, water, etc and allow for testing the whole of the stormwater, soil, water reticulation and fire water reticulation in parts and sections as completed and/or handed over to the satisfaction of the engineer. All defective work to be taken out and replaced at the Contractors expense and the whole re-tested until found perfect.</p>	<p>Item</p>		
	<p>Carried to Collection</p> <p>Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Suppl</p>		<p>R</p>	

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

<p>Section No. 3</p> <p>Bill No. 3</p> <p>Stormwater Drainage, Soil Drainage and Water Supply</p> <p><u>COLLECTION</u></p>	<p>Total Brought Forward from Page No.</p>	<p>Page No</p> <p>403</p>			
		404			
		405			
		406			
		407			
		408			
		409			
		410			
		411			
		412			
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		421			
		422			
	<p>Carried Forward</p>			R	
<p>Section No. 3</p> <p>Bill No. 3</p> <p>Stormwater Drainage, Soil Drainage and Water Suppl</p>					

**Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works**

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 4</u></p> <p><u>BOUNDRY WALL, FENCING, GATES, ETC</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p><u>FENCING</u></p> <p><u>Cochrane Standard ClearVu pressed mesh panel fence or equal and approved formed of horizontal and vertical high tensile wire galvanised with Marine Fusion Bond coating with aperture, bolted with vandal resistant bolts and clamping plates to post /frame including Locking Recess Mechanism with sealed end caps with bitumen coated ClearVu underdig or equal and approved pressed mesh panel fencing 2400mm high and including 2400mm long standard recess ClearVu taper locking posts at 3300mm centres size overall 85 x 88 x 4mm thick Marine Fusion Bond coated sealed with UV stabilised polymer end caps and bolted to and including 15MPa/19mm aggregate concrete block 600 x 600 x 650mm deep with vandal resistant bolts and clamping plates including sealed end caps, bolts, double clamping plates, etc. installed complete in strict accordance with the manufacturer's instructions:</u></p>			
1	Fence laid straight	m	616	
2	Fence laid circular on plan	m2	28	
3	60 x 60 x 6mm L section post 3,00m long including 15MPa/19mm aggregate concrete block 600 x 600 x 650mm deep	No	33	
	Carried to Collection		R	
	Section No. 3 Bill No. 4 Boundary Walls, Fencing, Etc			

4	<p><u>Stormwater outlet under fencing</u></p> <p>Double bell mouth concrete stormwater outlet under sloping fence, one side size 3300mm wide x 1000mm long x 100mm thick concrete, one side sloping towards fence forming channel of with 3No. x 110mm sleeves cast into concrete and other side of bell mouth sloping away from fence with brick water speed breakers arranged in opening towards outlet as per attached architects drawing P2A-HDG-070-SEC-CVHF002</p> <p style="text-align: right;">No</p> <p><u>GATES AND SLIDING GARES</u></p> <p><u>Purpose made High Security gates and sliding gates by ClearVU (031 700 5990) or equal and approved. Gate panel aperture to be 76 x 12.7mm, reinforced by 4 x 50mm deep V formation, 2 x 70 flanges along sides and 2 x 30mm flanges on top and bottom, panels and gates to be hot dipped galvanised and Marine fusion coated, with and including frame and posts complete as per manufactures specification and installed all in accordance with the manufacturers specification.</u></p> <p><u>A 100mm high toughened steel Shark Tooth Spike shall be affixed to panel edge, internally 150mm intervals using anti-vandal bolts, spike finish to be hot dipped galvanised and marine fusion bond coated.</u></p> <p>See architects detail drawings P2A-HDG-070-739, P2A-HDG-070-744, P2A-HDG-070-745, P2A-HDG-070-746, P2A-HDG-070-747, P2A-HDG-070-760, P2A-HDG-070-766, P2A-HDG-070-767, P2A-HDG-070-768, P2A-HDG-070-769, P2A-HDG-070-772, P2A-HDG-070-775, P2A-HDG-070-776, P2A-HDG-070-777, P2A-HDG-070-778, P2A-HDG-070-781, P2A-HDG-070-782 and P2A-HDG-070-783.</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 3 Bill No. 4 Boundary Walls, Fencing, Etc</p>	7		
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Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

5	Sliding gate overall size 3805 x 2380mm high in 2 panels including 75 x 75mm hollow section frame, 2No. x 75mm diameter steel wheels and brackets, 40 x 40mm angle iron rack carrier and rack including IPE AA100 section cast in to concrete sliding track, concrete foundation 220mm wide x 300mm deep including 25MPa concrete, welded mesh, formwork, etc. with 20mm diameter mild steel rounding welded to track, track twice the gate length and hinges all in accordance with attached architects drawings, type P2A-HDG-SEC/CVSS001	No	1		
6	Sliding gate size 9650 x 2450mm high in 5 panels including 75 x 75mm frame and 100 x 100mm post 3205mm long and 100 x 100mm hollow section mild steel guide frame complete with roller guide, posts to be cast on concrete, posts including 15MPa/19mm aggregate concrete block 600 x 600 x 650mm deep with vandal resistant bolts and clamping plates including sealed end caps, bolts, double clamping plates, etc. 3No. x 75mm diameter steel wheels and brackets, 40 x 40mm angle iron rack carrier and rack including IPE AA100 section cast in to concrete sliding track, concrete foundation 220mm wide x 300mm deep including 25MPa concrete, welded mesh, formwork, etc. with 20mm diameter mild steel rounding welded to track, track twice the gate length all in accordance with attached architects drawings P2A-HDG-SEC-SEC/CVSSa001	No	1		
Carried to Collection					R
Section No. 3 Bill No. 4 Boundary Walls, Fencing, Etc					

7	Sliding gate size 8351 x 2450mm high in 5 panels including 75 x 75mm frame and 100 x 100mm post 3205mm long and 100 x 100mm hollow section mild steel guide frame complete with roller guide, posts to be cast in concrete, posts including 15MPa/19mm aggregate concrete block 600 x 600 x 650mm deep with vandal resistant bolts and clamping plates including sealed end caps, bolts, double clamping plates, etc. 3No. x 75mm diameter steel wheels and brackets, 40 x 40mm angle iron rack carrier and rack including IPE AA100 section cast in to concrete sliding track, concrete foundation 220mm wide x 300mm deep including 15MPa concrete, welded mesh, formwork, etc. with 20mm diameter mild steel rounding welded to track, track twice the gate length and closing mechanisms, all in accordance with attached architects detail drawings and P2A-HDG-SEC/CVSSa002	No	1		
8	Sliding gate size 9416 x 2450mm high in 5 panels including 75 x 75mm frame and 100 x 100mm post 3205mm long and 100 x 100mm hollow section mild steel guide frame complete with roller guide, posts to be cast on concrete, posts including 15MPa/19mm aggregate concrete block 600 x 600 x 650mm deep with vandal resistant bolts and clamping plates including sealed end caps, bolts, double clamping plates, etc. 3No. x 75mm diameter steel wheels and brackets,40 x 40mm angle iron rack carrier and rack including IPE AA100 section cast in to concrete sliding track, concrete foundation 220mm wide x 300mm deep including 25MPa concrete, welded mesh, formwork, etc. with 20mm diameter mild steel rounding welded to track, track twice the gate length and closing mechanisms all in accordance with attached architects detail drawings and P2A-HDG-SEC/CVSSa003	No	1		
Carried to Collection					R
Section No. 3 Bill No. 4 Boundary Walls, Fencing, Etc					

9	<p>Sliding gate size 10047 x 2450mm high in 5 panels including 75 x 75mm frame and 100 x 100mm post 3205mm long and 100 x 100mm hollow section mild steel guide frame complete with roller guide, posts to be cast in concrete, posts including 15MPa/19mm aggregate concrete block 600 x 600 x 650mm deep with vandal resistant bolts and clamping plates including sealed end caps, bolts, double clamping plates, etc. 3No. x 75mm diameter steel wheels and brackets, 40 x 40mm angle iron rack carrier and rack including IPE AA100 section cast in to concrete sliding track, concrete foundation 220mm wide x 300mm deep including 15MPa concrete, welded mesh, formwork, etc. with 20mm diameter mild steel rounding welded to track, track twice the gate length and closing mechanisms all in accordance with attached architects detail drawings and P2A-HDG-SEC/CVSSa004</p>	No	1		
	Carried to Collection			R	
	Section No. 3 Bill No. 4 Boundary Walls, Fencing, Etc				

**Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works**

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Bill No	<u>SECTION SUMMARY - External Works</u>	Page No		Amount	
1	General Siteworks	397			
2	Roads, Parking, Etc	402			
3	Stormwater Drainage, Soil Drainage and Water Supply	428			
4	Boundary Walls, Fencing, Etc	434			
	Carried to Final Summary		R		
	Section No. 3				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 4</u></p> <p><u>BILL NO. 1</u></p> <p><u>PROVISIONAL SUMS</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p>The following sums and amounts are NETT.</p> <p>Under no circumstances may any Provisional Sum or P.C Item be altered.</p> <p>Unless a specific percentage mark up for attendance is indicated in the rate column, the amounts priced by the contractor for attendance against each Provisional Sum shall be deemed to be Lump Sum and shall not be adjusted unless the scope of the sub-contract varies significantly.</p> <p>Provisional Sums contained herein may be omitted or reduced at the employer's sole discretion and the contractor shall not be entitled to claim for any loss by way of reductions or omissions of any discount, or percentage relating to the Provisional Sums or P.C Amounts or any loss of profit related thereto.</p> <p><u>ALLOW THE FOLLOWING PROVISIONAL SUMS</u></p> <p><u>MV INSTALLATION</u></p> <p>1 Provide the amount of R8,088,000.00 for the MV installation executed complete</p> <p>2 Profit on above item</p> <p>3 Attendance on ditto</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 4 Bill No. 1 Provisional Sums</p>			
		Item		8,088,000.00
		Item		
		Item		
			R	

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

	<u>LV INSTALLATION</u>				
4	Provide the amount of R8,988,600.00 for the LV installation executed complete	Item		8,988,600.00	
5	Profit on above item	Item			
6	Attendance on ditto	Item			
	<u>STANDBY GENSET INSTALLATION</u>				
7	Provide the amount of R1,916,300.00 for the standby genset installation executed complete	Item		1,916,300.00	
8	Profit on above item.	Item			
9	Attendance on ditto.	Item			
	<u>AREA LIGHTING INSTALLATION</u>				
10	Provide the amount of R3,011,400.00 for the area lighting installation executed complete	Item		3,011,400.00	
11	Profit on above item.	Item			
12	Attendance on ditto.	Item			
	<u>SPORTSFIELD LIGHTING INSTALLATION</u>				
13	Provide the amount of R1,327,700.00 for the sportsfield lighting installation executed complete	Item		1,327,700.00	
14	Profit on above item.	Item			
15	Attendance on ditto.	Item			
	<u>ICT SLEEVES & MANHOLE INSTALLATION</u>				
16	Provide the amount of R778,500.00 for the ICT sleeves and manholes installation executed complete	Item		778,500.00	
17	Profit on above item.	Item			
18	Attendance on ditto.	Item			
	Carried to Collection			R	
	Section No. 4				
	Bill No. 1				
	Provisional Sums				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

<u>PV SOLAR LIGHTING INSTALLATION</u>				
19	Provide the amount of R7,327,400.00 for the PV solar installation executed complete	Item		7,327,400.00
20	Profit on above item.	Item		
21	Attendance on ditto.	Item		
<u>ELECTRICAL INSTALLATION</u>				
22	Provide the amount of R17,817,400.00 for the electrical installation executed complete	Item		17,817,400.00
23	Profit on above item.	Item		
24	Attendance on ditto.	Item		
<u>IT & TELECOMS INSTALLATION</u>				
25	Provide the amount of R9,531,000.00 for the IT and telecoms installation executed complete	Item		9,531,000.00
26	Profit on above item.	Item		
27	Attendance on ditto.	Item		
<u>SECURITY INSTALLATION</u>				
28	Provide the amount of R8,277,200.00 for the security installation executed complete	Item		8,277,200.00
29	Profit on above item.	Item		
30	Attendance on ditto.	Item		
<u>FIRE DETECTION INSTALLATION</u>				
31	Provide the amount of R1,399,100.00 for the fire detection installation executed complete	Item		1,399,100.00
32	Profit on above item.	Item		
33	Attendance on ditto.	Item		
Carried to Collection			R	
Section No. 4				
Bill No. 1				
Provisional Sums				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

	<u>AV INSTALLATION</u>				
34	Provide the amount of R14,055,100.00 for the AV installation executed complete	Item		14,055,100.00	
35	Profit on above item.	Item			
36	Attendance on ditto.	Item			
	<u>HVAC INSTALLATION</u>				
37	Provide the amount of R31,500,000.00 for the HVAC installation executed complete	Item		31,500,000.00	
38	Profit on above item.	Item			
39	Attendance on above item.	Item			
	<u>FIRE PROTECTION INSTALLATION</u>				
40	Provide the amount of R1,717,000.00 for the fire protection installation executed complete	Item		1,717,000.00	
41	Profit on above item.	Item			
42	Attendance on above item.	Item			
	<u>KITCHEN EQUIPMENT INSTALLATION</u>				
43	Provide the amount of R3,865,000.00 for the kitchen equipment installation executed complete	Item		3,865,000.00	
44	Profit on above item.	Item			
45	Attendance on above item.	Item			
	<u>LAUNDRY EQUIPMENT INSTALLATION</u>				
46	Provide the amount of R35,000.00 for the laundry equipment installation executed complete	Item		35,000.00	
47	Attendance on above item.	Item			
	Carried to Collection			R	
	Section No. 4				
	Bill No. 1				
	Provisional Sums				

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

<u>REFRIDGERATION EQUIPMENT INSTALLATION</u>					
48	Provide the amount of R377,600.00 for the refrigeration equipment installation executed complete	Item		377,600.00	
49	Profit on above item.	Item			
50	Attendance on above item.	Item			
<u>SWIMMING POOL EQUIPMENT INSTALLATION</u>					
51	Provide the amount of R2,128,500.00 for the swimming pool equipment installation executed complete	Item		2,128,500.00	
52	Profit on above item.	Item			
53	Attendance on above item.	Item			
<u>PASSENGER LIFTS INSTALLATION</u>					
54	Provide the amount of R1,902,000.00 for the passenger lifts installation executed complete	Item		1,902,000.00	
55	Profit on above item.	Item			
56	Attendance on above item.	Item			
<u>PUMP INSTALLATIONS</u>					
57	Provide the amount of R1,976,400.00 for the pump installations executed complete	Item		1,976,400.00	
58	Profit on above item.	Item			
59	Attendance on above item.	Item			
<u>JOINERY FITTINGS</u>					
60	Provide the amount of R14,600.00.00 for joinery executed complete	Item		14,600,000.00	
61	Profit on above item.	Item			
Carried to Collection				R	
Section No. 4					
Bill No. 1					
Provisional Sums					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

62	Attendance on ditto.	Item			
	<u>SIGNAGE</u>				
63	Provide the amount of R760,000.00 for signage executed complete.	Item		760,000.00	
64	Profit on above item.	Item			
65	Attendance on ditto.	Item			
	<u>LANDSCAPING</u>				
66	Provide the amount of R9,451,000.00 for landscaping executed complete.	Item		9,451,000.00	
67	Profit on above item.	Item			
68	Attendance on ditto.	Item			
	<u>SWIMMING POOL FINISH</u>				
69	Provide the amount of R1,529,000.00 for swimming pool finish executed complete.	Item		1,529,000.00	
70	Profit on above item.	Item			
71	Attendance on ditto.	Item			
	<u>DECORATIVE TREES</u>				
72	Provide the amount of R1,680,000.00 for supply and installation of decorative trees	Item		1,680,000.00	
73	Profit on above item.	Item			
74	Attendance on ditto.	Item			
Carried to Collection				R	
Section No. 4					
Bill No. 1					
Provisional Sums					

Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

<p>Section No. 4</p> <p>Bill No. 1</p> <p>Provisional Sums</p> <p><u>COLLECTION</u></p>				
<p>Total Brought Forward from Page No.</p>	<p>Page No</p>		<p>Amount</p>	
	<p>436</p>			
	<p>437</p>			
	<p>438</p>			
	<p>439</p>			
	<p>440</p>			
	<p>441</p>			
<p style="text-align: right;">Carried to Final Summary</p>		<p>R</p>		
<p>Section No. 4</p> <p>Bill No. 1</p> <p>Provisional Sums</p>				

Section No	FINAL SUMMARY	Page No	Amount
1	Preliminaries & General	144	
2	Building Work	392	
3	External Works	435	
4	Provisional Sums	442	
	Sub Total		
5	Contingency		25 000 000,00
	Sub Total		
6	CPAP		35 000 000,00
	Sub Total		
7	ADD: 15% VAT		
	Final Total Carried Front of Tender		
	Carried to Form of Offer		R