

**PROVISIONAL BILLS OF QUANTITIES  
FOR  
REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN  
DR. RUTH SEGOMOTSI MOMPATI DISTRICT IN THE  
NORTH WEST PROVINCE**

**TENDER NUMBER.: NWDoh/PS/30/19**

**ISSUED BY:  
THE HEAD OF DEPARTMENT OF HEALTH  
CNR. SEKAME & FIRST STREET  
NEW OFFICE PARK  
MAHIKENG  
2745  
TEL: 018 391 4550**

<b>BIDDERS NAME</b>	
<b>CIDB REGISTRATION NUMBER:</b>	
<b>CSD REGISTRATION NUMBER:</b>	
<b>CONTACT NUMBER:</b>	
<b>TENDER AMOUNT</b>	
<b>TENDER AMOUNT IN WORDS</b>	

**MINIMUM CIDB GRADING 7GB OR HIGHER**



Health Office Park  
Private Bag X 2068  
MMABATHO  
2735

## SUPPLY CHAIN MANAGEMENT

Tel: +27 (18) 391 4043  
Email: [ttsineng@nwpg.gov.za](mailto:ttsineng@nwpg.gov.za)  
[www.health.gov.za](http://www.health.gov.za)

### INVITATION TO BID: NWDOH/PS/30/19: REFURBISHMENT OF TAUNG HOSPITAL IN GREATER TAUNG LOCAL MUNICIPALITY, DR RUTH SEGOMOTSI MOMPATI, NORTH WEST PROVINCE

Open bids are hereby invited for Refurbishment of Taung Hospital in Greater Taung Local Municipality, Dr Ruth Segomotsi Mompoti, North West Province.

The conditions contained in the Preferential Procurement Policy Framework Act and 2017 PPPFA Regulations, National Treasury Implementation Guide: Preferential Procurement Regulations 2017, the General Conditions of Contract (GCC) and/ NEC 3 Engineering & Construction Contract, i.e. Annexure "A" and the attached bid forms, as well as any other conditions accompanying this invitation, are applicable.

1. The work procedure the bidder proposes to follow in order to obtain the required result must be clearly outlined and its terms may not conflict with those contained in the General Conditions of Contract.
2. All the documents accompanying this invitation to bid must be completed in detail where applicable, and together with all documentation required in considering the bid, be sealed in an envelope and be deposited in the bid box before the closing date and time.
3. The proposals in a sealed envelope and marked with the Bid Number , Company Name, Closing Date and Closing Time should be deposited in the Bid Box situated at the entrance of the **Department of Health North West, New Office Park Building, Ground floor, Corner First Street and Sekame, Mmabatho [Behind the Crossing Mall]. No correspondence will be entered into regarding non-submission/attachment of required documents after bid closure. Failure to submit all the required documents will render your bid non-responsive**
4. Duly completed and signed original bid documents issued by the Department should be sealed in an envelope marked:

**Bid number : NWDOH/PS/30/19**

**Company Name :**

**Closing date : 23 February 2023**

**Closing time : 11H00**

**THERE WILL BE NO BRIEFING SESSION HOWEVER TECHNICAL QUESTIONS OR ENQUIRIES CAN BE SEND TO**

**Mr G. Leseyane 018 391 4632/066 289 2635/ [GLLeseyane@nwpg.gov.za](mailto:GLLeseyane@nwpg.gov.za)**

No telegraphic or facsimile bids will be considered.

**5. In terms of the PFMA Treasury Regulations 2005:-**

**A. Regulation 16A9. 1 [e] and [f]** the Accounting Officer of the Department may-

i. Reject a proposal for the award of a contract if the recommended bidder has committed a corrupt or fraudulent act in competing for the particular contract, or

ii. Cancel a contract awarded to a supplier of goods or services

- If the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract, or

- If any official or other role-player committed any corrupt or fraudulent act during the bidding process or the execution of that contract that benefitted that supplier.

**B. Regulation 16A9.2 [a] and [b]** the accounting officer or accounting authority-

i. May disregard the bid of any bidder if that bidder, or any of its directors-

- Have abused the institution's supply chain management system
- Have committed fraud or any other improper conduct in relation to such system.

**C.** Bidders may NOT buy gifts for or ask for cell phone numbers from Bid Committee Members or contract managers during briefing sessions, evaluation and adjudication of bids. In terms of the **NATIONAL TREASURY MINUTE 3/3/3/2/10 DATED 23 APRIL 2006-CODE OF CONDUCT FOR BID ADJUDICATION COMMITTEES** governing the Conduct of all Bid Committees, Stakeholders and SCM Practitioners involved in the SCM processes:-

- i. Bid information and documentation are confidential
- ii. No unauthorized communication should be made with a bidder/contractor by any member, stakeholder or SCM

**D. IN TERMS OF THE NATIONAL TREASURY SCM PRACTICE NOTE NUMBER: SCM 4  
OF 2003; CODE OF CONDUCT FOR SUPPLY CHAIN MANAGEMENT  
PRACTITIONERS -**

"6.5. No person should:-

"6.5.1 Interfere with the supply chain management system of an  
Institution

"6.5.2 Amend or tamper with any bid after its submission

6. Bidders should ensure that all the relevant documentation required in considering bids are submitted. **No correspondence will be entered into regarding non-submission/attachment of documents. Failure to submit all the required documents will render your bid non-responsive**
7. The Department will not be held responsible for missing or duplicated documents. **Bidders are required to sign, number sequentially and put a company stamp on each page of the bidding documents. Bid documents must be binded.**
8. It is the ultimate responsibility of every bidder to ensure that his/her bid is duly deposited in the Bid Box situated at the entrance of the Department of Health North West, New Office Park Building, Ground floor, Corner First Street and Sekame, Mmabatho on time before the closing date and time. **The Department of Health shall not be held responsible for any couriered bid documents that do not reach the Bid Box by the Closing date and time. – Couriered documents must be deposited in the bid box by Couriers before the closing date and time .No correspondence will be entered into regarding late bids and couriered documents that were not deposited in the bid box by the bid closing date and time.**
9. The Department of Health reserves the right to award any bid in whole or in part and the Department **does not bind itself to accept the lowest or any bid in whole and price alone is not a determining factor.**
10. National Treasury has per Circular no 1 OF 2015/2016 dated 21 December 2015 given instructions to all PFMA Institutions that with effect from 01 April 2016, no quotation or bid may be awarded to any supplier who is not registered as a Prospective Supplier on the National Treasury Central Service Provider Database [CSD] ]. If you are not registered proceed to complete the registration of your company prior to submitting your bid. Refer to <https://secure.csd.gov.za/> to register your company. Ensure that all documentation on the database are updated and valid. Bidders should further note that the Central Supplier Database (CSD) will be utilized to confirm compliance to tax and other related matters. It is therefore the bidder's responsibility to ensure compliance in all respects.

11. For more information please contact the following:

**ADMINISTRATION ENQUIRES:**

- Ms T. Matshoba 018 391 4043 / [ttsineng@nwpg.gov.za](mailto:ttsineng@nwpg.gov.za)

**TECHNICAL ENQUIRIES:**

- Mr G. Leseayne 018 391 4632/066 289 2635 / [GLLeseyane@nwpg.gov.za](mailto:GLLeseyane@nwpg.gov.za)

Potential bidder(s) must reduce all telephonic enquiries to writing and send them to the above email addresses.

**12. CONDITIONS TO BID**

This bid is issued under the condition that the bidder should at any stage during production or execution or on completion of the bid be subject to inspection. The premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by the representative of the Department of Health or organization acting on behalf of the State. The bidder shall provide, if required, all required facilities for inspections, tests and analysis of the land available, apparatus which may be required for the purpose of such inspection, tests and analysis free of charge unless otherwise specified. The bidder also agrees that the financial standing of the bidder may be examined as part of the inspection

**13. RISK ANALYSIS**

A risk analysis as per applicable legislation and prescripts shall be used to establish the competency and ability of the successful bidder for the project

**14. BID REQUIREMENTS**

- a. Late bids will not be considered. Please note that bids are late if they are received at the address given in the bid document after the bid closing date and time.
- b. Bids will be valid for a period of 90 days.
- c. All bid prices must be quoted in South African currency and must be VAT inclusive.
- d. All the Relevant Forms attached to this bid document must be completed and signed in black ink where applicable by a duly authorized official. Use of tippex and pencil in the bid document are not allowed. Where cancellation has been made, bidders should endorse with a signatures

## 15. BID ADMINISTRATION DOCUMENTS TO BE SUBMITTED BY ALL BIDDERS:

National Treasury has per **NATIONAL TREASURY INSTRUCTION NO.1 OF 2015/2016 ADVERTISEMENT OF BIDS AND THE PUBLICATION OF AWARDS ON THE e-TENDER PUBLICATION PORTAL dated 01 April 2015** prescribed the mandatory advertisement of bids on the e-tender Publication Portal by all departments. Constitutional institutions and public entities listed In Schedules 2 and 3 to the Public Finance Management Act (PFMA). 1999 (Act No.1 of 1999), hereafter referred to as PFMA compliant institutions. This application is aimed at ensuring that all potential service providers have easy access to advertised bids and are provided with an opportunity to supply PFMA compliant institutions with goods and services, as they may require. With effect from 1 May 2015, all PFMA compliant institutions must submit the following information to the relevant treasury's e-Tender Publication Administrator in support its advertisement:

- (a) Bid description;
- (b) Bid number;
- (c) Name of the PFMA compliant institution;
- (d) The place where the bid is required;
- (e) The closing date and time of the bid;
- (f) The PFMA compliant institution's contact details (postal and physical Address , Telephone number, etc.);
- (g) The place where bids can be collected;
- (h) The place where bids should be delivered; and
- (i) The bid document, that is,
  - Invitation to Bid-which explains the bid administration requirements and the evaluation criteria, to be complied with by all bidders.
  - SBD Forms Prescribed by National Treasury- to be completed by all Bidders without exception
  - Technical Bid Specifications/Terms of Reference or Bill of Quantities requirements - depending on the technical nature of the bid.



## BID ADMINISTRATIVE REQUIREMENTS/CRITERIA TO BE USED IN EVALUATING A BID

The National Treasury Supply Chain Management Circular Ref 3/4/3/2/10 dated 10 May 2005: Page 2 Paragraph 1 stipulates that "Bids may only be evaluated in accordance with the evaluation Criteria stipulated in the bid documentation"

All the under-mentioned documentation /criteria required to evaluate this bid must be sealed in an envelope and be deposited in the bid box before the closing date and time.

### ALL BIDDERS ARE REQUIRED TO ENSURE THAT THE FOLLOWING DOCUMENTS ARE ATTACHED:-

- (a) Original, fully completed and signed applicable SBD Bid Documents and Preference Claim Forms in terms of the Preferential Procurements Regulations and National Treasury SCM prescripts. **NB. All Bidders are required to fully complete the mandatory SBD forms (SBD form 1, 4, 6.1,) as required by the National Treasury PFMA prescripts and the PPPFA Regulations AND to fully complete all other forms as required by the specification, without fail.**
- (b) Copies of Identity Documents of the Directors / Main Shareholders of the company.
- (c) Valid Tax Clearance Certificate/ Tax Compliance Status PIN or CSD Report- The Department will also verify the tax compliance status of bidder
- (d) Only Bidders who collect bid documentation from the Health Department must attach a General Revenue Receipt of **Five Hundred Rand (R500-00)**. Original or Copy of stamped Bank Deposit slip or Electronic Transfer printout or Departmental Revenue Receipt reflecting the name of the Bidder and Bid Number –**Bidders are encouraged to download the bid documentation from the E-Tender**

Bank Name	: FNB
Account Name	: NW Health
Account holder	: NWPG
Branch code	: 250655
Account number	: 62811730747

- (e) Copy of Company Registration Certificate from the Registrar of Companies of all Parties indicating the names of directors or main shareholders of the company. **NB The old Company Registration certificates issued in terms of the repealed 1973 Companies Act which do not show the company Directors 'names are not acceptable. All bidders are required to submit the updated Company Registration**

**Certificates issued by the Registrar of Companies in terms of the 2008 Companies Act, that is, a complete certificates which indicate the names of all Directors or main shareholders of the Company.**

- (f) Bidders are required to submit original and valid B-BBEE Status level Verification Certificate or certified copies thereof, or confirmation letter, together with their bids, to substantiate their B-BBEE rating claims. An EME is required to submit a sworn affidavit confirming their annual total revenue of R10 MILLION or less and level of black ownership to claim points as prescribed by regulation 6 and 7 of the Preferential Procurement Regulations 2017
- (g) Bidders who do not submit B-BBEE Status level Verification Certificates , a sworn affidavit or are non-compliant contributors to B-BBEE do not qualify for preference points for B-BBEE but shall not be disqualified from the bidding process , but will score points out of price only and zero [0] points out of B-BBEE.
- (h) **In the case of joint venture (JV) or Consortium the following documents must be attached to the Bid documents:-**
  - Valid Tax Clearance Certificate pin of all Partners- / Tax Compliance Status PIN or CSD report- The Department will also verify the tax compliance status of bidder
  - Copies of Identity Documents of all Directors / Main Shareholders of the company.- **[IN COMPLIANCE WITH REGULATIONS GOVERNING THE ADMINISTERING OF AN OATH OR AFFIRMATION-PROCLAMATION NO.R 1258 DATED 21 JULY 1972[ AMENDED BY G.N.R 1648 OF 19 AUGUST 1977, G.N.R 1428 OF 11 JULY 1980 AND G.N.R 774 OF 23 APRIL 1982]-CONSTITUTIONAL AND JUSTICE DEPARTMENT read together with COMPANIES INTELLECTUAL PROPERTY COMMISSION –NOTICE NUMBER 45 and 54 OF 2016- CERTIFICATION OF DOCUMENTS ]**
  - Joint venture agreement duly signed by all parties
  - Only Bidders who collect bid documentation from the Health Department must attach a General Revenue Receipt of **Five Hundred Rand (R500-00** [Original or Copy]—Bidders who download the bid documentation from the E-Tender Website are exempted from this requirement
  - A certificate or agreement regarding shareholder -ship of members
  - Copies of Company Registration Certificates from the Registrar of Companies of all Parties to a Joint Venture indicating the names of directors or main shareholders of the companies to the joint venture.-**NB The old Company Registration certificates issued in terms of the repealed 1973 Companies Act which do not show the company Directors 'names are not acceptable. All bidders are required to submit the updated Company Registration Certificates**



**issued by the Registrar of Companies in terms of the 2008 Companies Act, that is, a complete certificates which indicate the names of all Directors or main shareholders of the Company**

- Original Certificate or Original Certified copy of the Consolidated B-BBEE Status level verification Certificate or confirmation letter.-An EME is required to submit a sworn affidavit confirming their annual total revenue of R10 MILLION or less and level of black ownership to claim points as prescribed by regulation 6 and 7 of the Preferential Procurement Regulations 2017--Bidders who do not submit B-BBEE Status level Verification Certificates , a sworn affidavit or are non-compliant contributors to B-BBEE do not qualify for preference points for B-BBEEE but shall not be disqualified from the bidding process , but will score points out of price only and zero [0] points out of B-BBEE
- (i) A Trust, consortium or a joint venture are required to submit a Consolidated-BBEEE Status Level Verification Certificate for every separate bid
- (j) Public entities and tertiary institutions are required to submit B-BBEE Status level verification certificates together with their bids

All the bid documents should be completed, signed and sealed in an envelope and deposited in the Bid Box, situated at the entrance of the **Department of Health North West, New Office Park Building, Ground Floor, Corner First Street and Sekame, Mmabatho.**

## **16. VALIDITY OF B-BBEE STATUS LEVEL VERIFICATION CERTIFICATES**

- AO/AAs must ensure that the B-BBEE Status Level Verification Certificates submitted are issued by the following agencies:
  - Tenderers other than EMEs
    - I. Verification agencies accredited by SANAS; or
  - Tenderers who qualify as EMEs
    - II. Sworn affidavit signed by the EME representative and attested by a Commissioner of oaths.

### **16.1 Verification agencies accredited by SANAS**

- 16.1.1 These certificates are identifiable by a SANAS logo and a unique BVA number.
- 16.1.2 Confirmation of the validity of a B-BBEE Status Level Verification Certification can be done by tracing the name of the issuing

Verification Agency to the list of all SANAS accredited agencies. The list is accessible on <http://www.sanas.co.za/directory/bbee default.php>

- 16.1.3. The relevant BVA may be contacted to confirm whether such a certificate is valid.
- 16.1.4 As a minimum requirement, all valid B-BBEE Status Level Verification Certificates should have the following information detailed on the face of the certificate:
- The name and physical location of the measured entity
  - The registration number and, where applicable, the VAT number of the measured entity;
  - The date of issue and date expiry;
  - The certification number for identification and reference;
  - The scorecard that was used ( for example QSE, Specialized or Generic);
  - The name and / or logo of the Verification Agency;
  - The SANAS logo
  - The certificate must be signed by the authorized person from the Verification Agency; and
  - The B-BBEE Status Level of Contribution obtained by the measured entity

## **17. VERIFICATION OF B-BBEE LEVELS IN RESPECT OF EMEs**

- 17.1. In terms of the Generic Codes Practice, an enterprise including a sole propriety with annual total revenue of R10 million or less qualifies as an EME
- 17.2 in instances where Sector Charters are developed to address the transformation challenges of specific sectors or industries, the threshold for qualification as an EME may be different from the generic threshold of R10 million. In such instances, the relevant sector Charter threshold will therefore be used as a basis for a potential bidder to qualify as an EME. (For example the approved threshold for EMEs for the Tourism and Construction Sector Charters are R2.5 million and R1.5 million respectively)
- 17.3 An EME is required to submit a sworn affidavit confirming their annual total revenue of R10 million or less and level of black ownership to claim points as prescribed by regulation 6 and 7 of the preferential procurement regulations 2017.
- 17.4 An EME that is regarded as a Specialized Enterprise is required to submit a sworn affidavit confirming their annual turnover/allocated budget/ gross receipt of R10 million or less and level of percentage black beneficiaries to claim points as prescribed by regulation 6 and 7 of the preferential procurement regulations 2017.

- 17.5 An EME may be measured in terms of the QSE scorecard should they wish to maximize their points and move to a higher B-BBEE recognition level. It is in this context that an EME may submit a B-BBEE verification certificate

## **18. FUNCTIONAL REQUIREMENTS**

The evaluation criteria for measuring functionality, the weight of each criterion, the applicable values as well as the minimum qualifying score for functionality are contained in the technical Bid Specifications.

### **2017 PPPFA REGULATIONS: 2017 NATIONAL TREASURY IMPLEMENTATION GUIDE**

#### **"14. SUB CONTRACTING AS A CONDITION OF TENDER FOR PROCUREMENT ABOVE R30 MILLION [Regulation 9**

- "14.1 The regulation states that if feasible to contract above 30 million, an organ of state must apply sub-contracting to advance designated groups."
- "14.2 The term "feasible" is used in recognition of the fact that it may not always be possible to sub-contract in all tenders due to the nature of some tenders for instance, it may not be possible to sub-contract one piece of machinery that is above 30 million."
- "14.9 In the case of construction and built environment sectors nothing prevents bidders / contractors /suppliers to select sub-contractors from the CIDB database who are registered on the CSD for the purposes of compliance with minimum 30% compulsory sub-contracting provisions"
- "14.12 The responsibility to sub-contract with competent and capable sub-contractors rests with the main contractor/supplier "

19. **EVALUATION CRITERIA FOR THIS BID IS AS FOLLOWS:**

**CIDB GRADING: 7GB OR HIGHER**

90/10

- 90 = Price; NOTE: All bid price/s should be VAT inclusive.
- 10 = Preferential Points(Points will be allocated according to B-BBEE Rating)

B-BBEE Status Level of Contributor	Number of points (90/10 system)
1	10
2	9
3	6
4	5
5	4
6	3
7	2
8	1
Non-compliant contributor	0



ACTING CHIEF FINANCIAL OFFICER

DATE: 08/12/2022

## COMPLIANCE CHECKLIST

**NB. THE BIDDERS MUST COMPLETE THE CHECKLIST TO VERIFY/CONFIRM WHETHER A BIDDER HAS ATTACHED ALL OF THE BID ADMINISTRATIVE REQUIREMENTS**

NO	REQUIREMENT	HAVE YOU ATTACHED  Answer Yes or No
1	Compulsory Briefing session	N/A
2	General Revenue Receipt should be attached by all bidders who obtained hardcopy bid documentation at the Offices of the Health Department. Original Bank Deposit slip or Electronic Transfer printout receipt reflecting the name of the Bidder and Bid Number. <b>NB–Bidders who download the bid documentation from the E-Tender Website are exempted from this requirement. Bidders are encouraged to download the bid documentation from the E-Tender Website</b>	
3	Original, fully Completed and signed applicable Bid Documents and Preference Claim Forms in terms of the Preferential Procurement Regulations. NB. All Bidders are required to fully complete the SBD forms as required by the National Treasury PFMA prescripts and the 2017 PPPFA Regulations <u>AND</u> fully complete all other forms as required by the specification, without fail. Any bidder having not complied with these requirements shall be disqualified. [Each of the following SBD form must be fully completed and signed.]	
3.1	Availability of signed and fully completed SBD 1- Invitation to bid	
3.2	Availability of signed and fully completed SBD 4- Declaration of Interest	
3.4	Availability of signed and fully completed SBD 6.1 - Preference Points Claim Form in Terms of the Preferential Procurement Regulations 2017	
4	Copies of Identity Documents of all Directors / Main Shareholders of the company.-  <b>[IN COMPLIANCE WITH REGULATIONS GOVERNING THE ADMINISTERING OF AN OATH OR AFFIRMATION-PROCLAMATION NO.R 1258 DATED 21 JULY 1972[ AMENDED BY G.N. R 1648 OF 19 AUGUST 1977, G.N.R 1428 OF 11JULY 1980 AND G.N.R 774 OF 23 APRIL 1982]-CONSTITUTIONAL AND JUSTICE DEPARTMENT read together with COMPANIES INTELLECTUAL PROPERTY COMMISSION – NOTICE NUMBER 45 and 54 OF 2016- CERTIFICATION OF DOCUMENTS ]</b>	

5	<p>Valid Tax Clearance Certificate / Tax Compliance Status PIN or CSD Report-</p> <p>Indicate the expiry date[s] of all the TCC</p> <p>The Department will also verify the tax compliance status of bidder</p>	
6	<p>Copy of Company Registration Certificate from the Registrar of Companies of all Parties indicating the names of directors or main shareholders of the company. <b>NB The old Company Registration certificates issued in terms of the repealed 1973 Companies Act which do not show the company Directors 'names are not acceptable. All bidders are required to submit the updated Company Registration Certificates issued by the Registrar of Companies in terms of the 2008 Companies Act, that is, a complete certificates which indicate the names of all Directors or main shareholders of the Company without fail</b></p>	
7	<p><b>TOTAL BID PRICE INCLUDING VAT</b></p> <p><b>AMOUNT.....</b></p>	
8	<p>Bidders are required to submit original and valid B-BBEE Status level Verification Certificate or certified copies thereof, or confirmation letter, together with their bids, to substantiate their B-BBEE rating claims. Confirmation not older than six months.</p> <p>An EME is required to submit a sworn affidavit confirming their annual total revenue of R10 MILLION or less and level of black ownership to claim points as prescribed by regulation 6 and 7 of the Preferential Procurement Regulations 2017-</p> <p>-Bidders who do not submit B-BBEE Status level Verification Certificates , a sworn affidavit or are non-compliant contributors to B-BBEE do not qualify for preference points for B-BBEE but shall not be disqualified from the bidding process , but will score points out of price only and zero [0] points out of B-BBEE</p>	
<b>9 IN THE CASE OF JOINT VENTURE (JV) OR CONSORTIUM THE FOLLOWING DOCUMENTS MUST BE ATTACHED TO THE BID DOCUMENTS</b>		
9.1	<p>Valid Tax Clearance Certificate of all Partners- / Tax Compliance Status PIN or CSD report-</p> <p>The Department will also verify the tax compliance status of bidder</p> <p>Indicate the expiry date[s] of all the TCC of the JV partners.</p>	



9.2	<p>Copies of Identity Documents of all Directors / Main Shareholders of all Parties to the Joint Venture.-</p> <p><b>[ IN COMPLIANCE WITH REGULATIONS GOVERNING THE ADMINISTERING OF AN OATH OR AFFIRMATION-PROCLAMATION NO.R 1258 DATED 21 JULY 1972[ AMENDED BY G.N. R 1648 OF 19 AUGUST 1977, G.N.R 1428 OF 11JULY 1980 AND G.N.R 774 OF 23 APRIL 1982]- CONSTITUTIONAL AND JUSTICE DEPARTMENT read together with COMPANIES INTELLECTUAL PROPERTY COMMISSION – NOTICE NUMBER 45 and 54 OF 2016- CERTIFICATION OF DOCUMENT]</b></p>	
9.3	Joint venture agreement duly signed by all parties	
9.4	General Revenue Receipt should be attached by all bidders who obtained hardcopy bid documentation at the Offices of the Health Department-.Original Bank Deposit slip or Electronic Transfer printout receipt reflecting the name of the Bidder and Bid Number <b>NB-Bidders who download the bid documentation from the E-Tender Website are exempted from this requirement</b>	
9.5	Copies of Company Registration Certificates from the Registrar of Companies of all Parties to a Joint Venture indicating the names of directors or main shareholders of the companies to the joint venture.- <b>NB The old Company Registration certificates issued in terms of the repealed 1973 Companies Act which do not show the company Directors 'names are not acceptable. All bidders are required to submit the updated Company Registration Certificates issued by the Registrar of Companies in terms of the 2008 Companies Act, that is, certificates which indicate the names of all Directors or main shareholders of the Company, without fail.</b>	
9.6	<p>Original Certificate or Original Certified copy of the Consolidated B-BBEE Status level verification Certificate or confirmation letter.</p> <p>An EME is required to submit a sworn affidavit confirming their annual total revenue of R10 MILLION or less and level of black ownership to claim points as prescribed by regulation 6 and 7 of the Preferential Procurement Regulations 2017-</p> <p>Bidders who do not submit B-BBEE Status level Verification Certificates , a sworn affidavit or are non-compliant contributors to B-BBEE do not qualify for preference points for B-BBEEE but shall not be disqualified from the bidding process , but will score points out of price only and zero [0] points out of B-BBEE</p>	
10	A Trust, consortium or a joint venture are required to submit a consolidated B-BBEEE Status Level Verification Certificate for every separate bid	

11	Public entities and tertiary institutions are required to submit B-BBEE Status level verification certificates together with their bids	
12	<p>Duly completed and signed original bid documents issued by the Department should be sealed in an envelope marked:</p> <p>Bid number : <b>NWDOH/PS/13/19</b></p> <p>Company Name :</p> <p>Closing date : <b>23 February 2023</b></p> <p>Closing time : <b>11H00</b></p>	
13	Address and contact details:	

**SIGNATURE BY BIDDER:** .....

**DATE:** .....



Health Office Park  
Private Bag X 2068  
MMABATHO  
2735

**DEPARTMENTAL BID ADJUDICATION  
COMMITTEE**

Enq: Ms G. Setshedi  
Tel: +27 (18) 391 4374/4514  
Email: GMalwane@nwpg.gov.za  
[www.health.nwpg.gov.za](http://www.health.nwpg.gov.za)

## **1. PURPOSE**

The purpose of this submission is to advertise Refurbishment of Taung Hospital in greater local municipality, Dr. Ruth Segomotsi Mompati District, North West Province.

## **2. BACKGROUND**

Taung Hospital is in a village situated in the western part of Dr. Ruth Segomotsi Mompati in Taung Local Municipality in North West Province of South Africa. It is an old Hospital which is serving the villages of this Local Municipality and the only Hospital in the area. Due to high backlog of maintenance, Consultants were appointed and contracted for the building assessment and the following major defects were identified for maintenance:-

- Paediatric Ward
- Maternity
- Casualty / Emergency
- Roofing tiles
- Internal divisions
- Plumbing
- Floors
- Painting
- Floor finishes
- Internal tiling
- Fire Protection for compliance
- Electrical Installations to comply and issue COC
- Mechanical Installations (HVAC, Medical gas points and plant)

## **3. EXPECTED DELIVERABLES AND OUTCOMES**

The refurbishment and Maintenance will ensure a healthy and safe working environment as per the OHS Act 85 of 1993.

## **4. TIME FRAME/DURATION OF BID**

18 months

## 5. TECHNICAL SPECIFICATIONS

The Bill of Quantity document is attached; the technical specification was assessed and approved by Engineering and Technical Services Directorate.

## 6. BIDDER REQUIREMENTS

- a) The bidder must be registered with Construction Industry Development Board (CIDB) with an appropriate contractor grading designation of **7GB or higher**.
- b) A valid letter of good standing –COIDA (Compensation of Occupational Injuries or Diseases Act)

## 7. POST AWARD REQUIREMENTS

The successful tenderer will purchase at his cost the latest standard JBCC document, which will be entered into and signed by both parties.

## 8. EVALUATION CRITERIA:

### 9.1 FUNCTIONALITY

FUNCTIONALITY	MAXIMUM SCORE
1. Qualification of Project Manager and professional registration with SACPCMP as Construction Manager	20
2. Qualification and experience of construction supervisor or/ Foreman	20
3. Qualification of Safety Officer, professional registration with SACPCMP and experience	20
4. Company Experience in relevant projects	40
<b>TOTAL</b>	<b>100%</b>

Refer to 'Appraisal Process' below which is included in the bid document.

**Table 1: Appraisal Process**

NB: A bidder should score a minimum threshold of 70 points or more to proceed to the next stage of evaluation.					
NUMBER	CRITERION	MAX. SCORE	REQUIREMENTS	SCORE	MEANS OF VERIFICATION
1	Qualification of Project Manager and professional registration with SACPCMP as Construction Manager	20	1. Built environment: Degree/ National diploma + Professional registration certificate	20	Copy of Qualifications and professional registration certificate
			2. None submission of both qualifications and professional registration certificate	0	
2	Qualification and experience of construction supervisor or/ Foreman	20	1. Built environment: Degree/National Diploma with 5 years or more experience	20	Copy of Qualifications and detailed CV
			2. Built environment: Degree/National Diploma with 4 years experience	15	
			3. Built environment: Degree/ National Diploma with 3 years' experience	10	
			4. Built environment: Degree/ National Diploma with 2 years experience	5	
			5. Built environment: Degree/ National Diploma with 1 year or less experience	0	
3	Qualification and experience of Safety Officer and professional registration with SACPCMP	20	1. Degree/National diploma in Occupational Health and Safety (OHS) and Professional registration certificate and 5 years or more experience	20	Copy of Relevant Qualifications, detailed CV and professional registration certificate
			2. Degree/National diploma in Occupational Health and Safety (OHS) and Professional registration certificate and 4 years experience	15	
			3. Degree/National diploma in Occupational Health and Safety (OHS) and Professional registration certificate and 3 years experience	10	
			4. Degree/National diploma in Occupational Health and Safety (OHS) and Professional registration certificate and 2 years experience	5	
			5. Degree/National diploma in Occupational Health and Safety (OHS) and Professional registration certificate and 1 year or less experience or none submission.	0	
4	Company Experience in relevant projects	40	1. 5 or more completed similar type of projects of R20 million each and above	40	Completion Certificates and appointment letters for each project, with contactable references attached
			2. 4 completed similar type of projects of R20 million each and above	30	
			3. 3 completed similar type of projects of R20 million each and above	20	
			4. 2 completed similar type of projects of R20 million each and above	10	

			5. 1 completed similar type of project or None	0	
--	--	--	--	---	--

**NB: Bidders must score 70 points or more for functionality to proceed to the next round of the evaluation.**

## **9.2 Preference point system 90/10.**

- **90 = Price**

**NOTE: All bid price/should be VAT inclusive.**

- **10 = Preferential Points**

**(Points will be allocated according to B-BBEE Rating)**

<b>B-BBEE STATUS LEVEL OF CONTRIBUTOR</b>	<b>NUMBER OF POINTS (90/10)</b>
<b>1</b>	<b>10</b>
<b>2</b>	<b>9</b>
<b>3</b>	<b>6</b>
<b>4</b>	<b>5</b>
<b>5</b>	<b>4</b>
<b>6</b>	<b>3</b>
<b>7</b>	<b>2</b>
<b>8</b>	<b>1</b>
<b>Non- compliant contributor</b>	<b>0</b>

**Enquiries : Mr G. Leseane 018 391 4632/066 289 2635 / GLLeseane@nwpg.gov.za**



## PART A INVITATION TO BID

<b>YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE DEPARTMENT OF HEALTH</b>					
BID NUMBER:	NWDOH/PS/30/19	CLOSING DATE:	23/02/2023	CLOSING TIME:	11:00
DESCRIPTION	Refurbishment of Taung Hospital in Greater Taung Local Municipality, Dr Ruth Segomotsi Mompati, North West Province				
<b>BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)</b>					
DEPARTMENT OF HEALTH NORTH WEST, GROUND FLOOR					
NEW OFFICE PARK BUILDING,					
3801 CORNER FIRST STREET AND SEKAME					
MMABATHO, 2735					
<b>BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO</b>			<b>TECHNICAL ENQUIRIES MAY BE DIRECTED TO:</b>		
CONTACT PERSON	Ms T. Matshoba / Ms O. Seabelo		CONTACT PERSON	Mr Leseyane	
TELEPHONE NUMBER	018 391 4043/4233		TELEPHONE NUMBER	066 289 2635	
FACSIMILE NUMBER	N/A		FACSIMILE NUMBER	N/A	
E-MAIL ADDRESS	<a href="mailto:ttsineng@nwpg.gov.za">ttsineng@nwpg.gov.za</a> <a href="mailto:oseabelo@nwpg.gov.za">oseabelo@nwpg.gov.za</a>		E-MAIL ADDRESS	<a href="mailto:GLLeseyane@nwpg.gov.za">GLLeseyane@nwpg.gov.za</a>	
<b>SUPPLIER INFORMATION</b>					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	TICK APPLICABLE BOX]  <input type="checkbox"/> Yes <input type="checkbox"/> No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT		[TICK APPLICABLE BOX]  <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES &amp; QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]</b>					
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?		<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER THE QUESTIONNAIRE BELOW ]
<b>QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS</b>					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
DOES THE ENTITY HAVE A BRANCH IN THE RSA?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.					

## PART B TERMS AND CONDITIONS FOR BIDDING

<b>1. BID SUBMISSION:</b>
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2. <b>ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED--(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.</b>
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
1.4. <b>THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).</b>
<b>2. TAX COMPLIANCE REQUIREMENTS</b>
2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

**NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.**

SIGNATURE OF BIDDER:

.....

CAPACITY UNDER WHICH THIS BID IS SIGNED:

.....

(Proof of authority must be submitted e.g. company resolution)

DATE:

.....

## BIDDER'S DISCLOSURE

### 1. PURPOSE OF THE FORM

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

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

### 2. Bidder's declaration

- 2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest<sup>1</sup> in the enterprise, employed by the state? **YES/NO**

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

Full Name	Identity Number	Name of State institution

- 2.2 Do you, or any person connected with the bidder, have a relationship

---

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

with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:

.....  
 .....

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

2.3.1 If so, furnish particulars:

.....  
 .....

### 3 DECLARATION

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

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium<sup>2</sup> will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 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

---

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

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

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

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

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

### 1. GENERAL CONDITIONS

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

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

1.2

- a) The value of this bid is estimated to exceed R50 000 000 (all applicable taxes included) and therefore the 90/10 preference point system shall be applicable; or
- b) The 90/10 preference point system will be applicable to this tender.

1.3 Points for this bid shall be awarded for:

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

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

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

1.5 Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

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



## 2. DEFINITIONS

- (a) **“B-BBEE”** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (b) **“B-BBEE status level of contributor”** means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (c) **“bid”** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or proposals;
- (d) **“Broad-Based Black Economic Empowerment Act”** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (e) **“EME”** means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (f) **“functionality”** means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.
- (g) **“prices”** includes all applicable taxes less all unconditional discounts;
- (h) **“proof of B-BBEE status level of contributor”** means:
  - 1) B-BBEE Status level certificate issued by an authorized body or person;
  - 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
  - 3) Any other requirement prescribed in terms of the B-BBEE Act;
- (i) **“QSE”** means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (j) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

### 3. POINTS AWARDED FOR PRICE

### 3.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

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

80/20

or

**90/10**

$$P_s = 80 \left( 1 - \frac{Pt - P_{\min}}{P_{\min}} \right) \quad \text{or} \quad P_s = 90 \left( 1 - \frac{Pt - P_{\min}}{P_{\min}} \right)$$

Where

Ps = Points scored for price of bid under consideration

Pt = Price of bid under consideration

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

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

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

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

#### 5. BID DECLARATION

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

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

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

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

#### 7. SUB-CONTRACTING

- 7.1 Will any portion of the contract be sub-contracted?

(*Tick applicable box*)

YES		NO	
-----	--	----	--

- 7.1.1 If yes, indicate:

- What percentage of the contract will be subcontracted.....%
- The name of the sub-contractor.....
- The B-BBEE status level of the sub-contractor.....
- Whether the sub-contractor is an EME or QSE

(*Tick applicable box*)

YES		NO	

- v) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations, 2017:

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

8. **DECLARATION WITH REGARD TO COMPANY/FIRM**

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

8.2 VAT \_\_\_\_\_ registration  
number:.....

8.3 Company \_\_\_\_\_ registration  
number:.....

8.4 **TYPE OF COMPANY/ FIRM**

Partnership/Joint Venture / Consortium

One person business/sole propriety

Close corporation

Company

(Pty) Limited

[TICK APPLICABLE BOX]

8.5 **DESCRIBE PRINCIPAL BUSINESS ACTIVITIES**

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

8.6 **COMPANY CLASSIFICATION**

Manufacturer

Supplier

Professional service provider

Other service providers, e.g. transporter, etc.

[TICK APPLICABLE BOX]

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

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

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
  - (a) disqualify the person from the bidding process;
  - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
  - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
  - (d) recommend that the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
  - (e) forward the matter for criminal prosecution.

WITNESSES

1. ....

2. ....

.....  
SIGNATURE(S) OF BIDDERS(S)

DATE: .....

ADDRESS .....

.....

.....

# **THE NATIONAL TREASURY**

**Republic of South Africa**



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## **GOVERNMENT PROCUREMENT: GENERAL CONDITIONS OF CONTRACT**

**July 2010**

**GOVERNMENT PROCUREMENT**  
**GENERAL CONDITIONS OF CONTRACT**  
**July 2010**

**NOTES**

The purpose of this document is to:

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

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

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



## TABLE OF CLAUSES

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

## **General Conditions of Contract**

### **1. Definitions**

1. The following terms shall be interpreted as indicated:
  - 1.1 "Closing time" means the date and hour specified in the bidding documents for the receipt of bids.
  - 1.2 "Contract" means the written agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
  - 1.3 "Contract price" means the price payable to the supplier under the contract for the full and proper performance of his contractual obligations.
  - 1.4 "Corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution.
  - 1.5 "Countervailing duties" are imposed in cases where an enterprise abroad is subsidized by its government and encouraged to market its products internationally.
  - 1.6 "Country of origin" means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
  - 1.7 "Day" means calendar day.
  - 1.8 "Delivery" means delivery in compliance of the conditions of the contract or order.
  - 1.9 "Delivery ex stock" means immediate delivery directly from stock actually on hand.
  - 1.10 "Delivery into consignees store or to his site" means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the supplies are so delivered and a valid receipt is obtained.
  - 1.11 "Dumping" occurs when a private enterprise abroad market its goods on own initiative in the RSA at lower prices than that of the country of origin and which have the potential to harm the local industries in the

RSA.

- 1.12 "Force majeure" means an event beyond the control of the supplier and not involving the supplier's fault or negligence and not foreseeable. Such events may include, but is not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 1.13 "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the bidder of the benefits of free and open competition.
- 1.14 "GCC" means the General Conditions of Contract.
- 1.15 "Goods" means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.
- 1.16 "Imported content" means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or his subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the factory in the Republic where the supplies covered by the bid will be manufactured.
- 1.17 "Local content" means that portion of the bidding price which is not included in the imported content provided that local manufacture does take place.
- 1.18 "Manufacture" means the production of products in a factory using labour, materials, components and machinery and includes other related value-adding activities.
- 1.19 "Order" means an official written order issued for the supply of goods or works or the rendering of a service.
- 1.20 "Project site," where applicable, means the place indicated in bidding documents.
- 1.21 "Purchaser" means the organization purchasing the goods.
- 1.22 "Republic" means the Republic of South Africa.
- 1.23 "SCC" means the Special Conditions of Contract.
- 1.24 "Services" means those functional services ancillary to the supply of the goods, such as transportation and any other incidental services, such as installation, commissioning, provision of technical assistance, training, catering, gardening, security, maintenance and other such

obligations of the supplier covered under the contract.

- 1.25 “Written” or “in writing” means handwritten in ink or any form of electronic or mechanical writing.

**2. Application**

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

**3. General**

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

**4. Standards**

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

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

- 5.1 The supplier shall not, without the purchaser’s prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the purchaser in connection therewith, to any person other than a person employed by the supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 5.2 The supplier shall not, without the purchaser’s prior written consent, make use of any document or information mentioned in GCC clause 5.1 except for purposes of performing the contract.
- 5.3 Any document, other than the contract itself mentioned in GCC clause 5.1 shall remain the property of the purchaser and shall be returned (all copies) to the purchaser on completion of the supplier’s performance under the contract if so required by the purchaser.
- 5.4 The supplier shall permit the purchaser to inspect the supplier’s records relating to the performance of the supplier and to have them audited by auditors appointed by the purchaser, if so required by the purchaser.

**6. Patent rights**

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

**7. Performance security**

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

**8. Inspections, tests and analyses**

- 8.1 All pre-bidding testing will be for the account of the bidder.
- 8.2 If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the Department or an organization acting on behalf of the Department.
- 8.3 If there are no inspection requirements indicated in the bidding documents and no mention is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.
- 8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the supplies to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.
- 8.5 Where the supplies or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such supplies or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.
- 8.6 Supplies and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.
- 8.7 Any contract supplies may on or after delivery be inspected, tested or

analyzed and may be rejected if found not to comply with the requirements of the contract. Such rejected supplies shall be held at the cost and risk of the supplier who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with supplies which do comply with the requirements of the contract. Failing such removal the rejected supplies shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute supplies forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected supplies, purchase such supplies as may be necessary at the expense of the supplier.

- 8.8 The provisions of clauses 8.4 to 8.7 shall not prejudice the right of the purchaser to cancel the contract on account of a breach of the conditions thereof, or to act in terms of Clause 23 of GCC.

## **9. Packing**

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

## **10. Delivery and documents**

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

## **11. Insurance**

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

## **12. Transportation**

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

## **13. Incidental services**

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

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

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

#### **14. Spare parts**

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

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

#### **15. Warranty**

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

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

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

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

15.5 If the supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, the purchaser may proceed to take



such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under the contract.

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| <b>16. Payment</b>                              | <p>16.1 The method and conditions of payment to be made to the supplier under this contract shall be specified in SCC.</p> <p>16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfillment of other obligations stipulated in the contract.</p> <p>16.3 Payments shall be made promptly by the purchaser, but in no case later than thirty (30) days after submission of an invoice or claim by the supplier.</p> <p>16.4 Payment will be made in Rand unless otherwise stipulated in SCC.</p>   |
| <b>17. Prices</b>                               | <p>17.1 Prices charged by the supplier for goods delivered and services performed under the contract shall not vary from the prices quoted by the supplier in his bid, with the exception of any price adjustments authorized in SCC or in the purchaser's request for bid validity extension, as the case may be.</p>  |
| <b>18. Contract amendments</b>                  | <p>18.1 No variation in or modification of the terms of the contract shall be made except by written amendment signed by the parties concerned.</p>   |
| <b>19. Assignment</b>                           | <p>19.1 The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the purchaser's prior written consent.</p>   |
| <b>20. Subcontracts</b>                         | <p>20.1 The supplier shall notify the purchaser in writing of all subcontracts awarded under this contracts if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the supplier from any liability or obligation under the contract.</p>   |
| <b>21. Delays in the supplier's performance</b> | <p>21.1 Delivery of the goods and performance of services shall be made by the supplier in accordance with the time schedule prescribed by the purchaser in the contract.</p> <p>21.2 If at any time during performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.</p> <p>21.3 No provision in a contract shall be deemed to prohibit the obtaining of supplies or services from a national department, provincial department, or a local authority.</p> <p>21.4 The right is reserved to procure outside of the contract small quantities or to have minor essential services executed if an emergency arises, the</p> |

supplier's point of supply is not situated at or near the place where the supplies are required, or the supplier's services are not readily available.

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

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

## **22. Penalties**

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

## **23. Termination for default**

23.1 The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate this contract in whole or in part:

- (a) if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2;
- (b) if the Supplier fails to perform any other obligation(s) under the contract; or
- (c) if the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.

23.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner as it deems appropriate, goods, works or services similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar goods, works or services. However, the supplier shall continue performance of the contract to the extent not terminated.

23.3 Where the purchaser terminates the contract in whole or in part, the purchaser may decide to impose a restriction penalty on the supplier by prohibiting such supplier from doing business with the public sector for a period not exceeding 10 years.

23.4 If a purchaser intends imposing a restriction on a supplier or any

person associated with the supplier, the supplier will be allowed a time period of not more than fourteen (14) days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated fourteen (14) days the purchaser may regard the intended penalty as not objected against and may impose it on the supplier.

23.5 Any restriction imposed on any person by the Accounting Officer / Authority will, at the discretion of the Accounting Officer / Authority, also be applicable to any other enterprise or any partner, manager, director or other person who wholly or partly exercises or exercised or may exercise control over the enterprise of the first-mentioned person, and with which enterprise or person the first-mentioned person, is or was in the opinion of the Accounting Officer / Authority actively associated.

23.6 If a restriction is imposed, the purchaser must, within five (5) working days of such imposition, furnish the National Treasury, with the following information:

- (i) the name and address of the supplier and / or person restricted by the purchaser;
- (ii) the date of commencement of the restriction
- (iii) the period of restriction; and
- (iv) the reasons for the restriction.

These details will be loaded in the National Treasury's central database of suppliers or persons prohibited from doing business with the public sector.

23.7 If a court of law convicts a person of an offence as contemplated in sections 12 or 13 of the Prevention and Combating of Corrupt Activities Act, No. 12 of 2004, the court may also rule that such person's name be endorsed on the Register for Tender Defaulters. When a person's name has been endorsed on the Register, the person will be prohibited from doing business with the public sector for a period not less than five years and not more than 10 years. The National Treasury is empowered to determine the period of restriction and each case will be dealt with on its own merits. According to section 32 of the Act the Register must be open to the public. The Register can be perused on the National Treasury website.

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

24.1 When, after the date of bid, provisional payments are required, or anti-dumping or countervailing duties are imposed, or the amount of a provisional payment or anti-dumping or countervailing right is increased in respect of any dumped or subsidized import, the State is not liable for any amount so required or imposed, or for the amount of any such increase. When, after the said date, such a provisional payment is no longer required or any such anti-dumping or countervailing right is abolished, or where the amount of such provisional payment or any such right is reduced, any such favourable difference shall on demand be paid forthwith by the contractor to the State or the State may deduct such amounts from moneys (if any) which may otherwise be due to the contractor in regard to supplies or services which he delivered or rendered, or is to deliver or render in terms of the contract or any other contract or any other amount which

may be due to him

**25. Force Majeure**

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

**26. Termination for insolvency**

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

**27. Settlement of Disputes**

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

**28. Limitation of liability**

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

		(b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.
<b>29. Governing language</b>	29.1	The contract shall be written in English. All correspondence and other documents pertaining to the contract that is exchanged by the parties shall also be written in English.
<b>30. Applicable law</b>	30.1	The contract shall be interpreted in accordance with South African laws, unless otherwise specified in SCC.
<b>31. Notices</b>	31.1	Every written acceptance of a bid shall be posted to the supplier concerned by registered or certified mail and any other notice to him shall be posted by ordinary mail to the address furnished in his bid or to the address notified later by him in writing and such posting shall be deemed to be proper service of such notice
	31.2	The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting of such notice.
<b>32. Taxes and duties</b>	32.1	A foreign supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the purchaser's country.
	32.2	A local supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted goods to the purchaser.
	32.3	No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid the Department must be in possession of a tax clearance certificate, submitted by the bidder. This certificate must be an original issued by the South African Revenue Services.
<b>33. National Industrial Participation Programme (NIP)</b>	33.1	The NIP Programme administered by the Department of Trade and Industry shall be applicable to all contracts that are subject to the NIP obligation.
<b>34 Prohibition of Restrictive practices</b>	34.1	In terms of section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, an agreement between, or concerted practice by, firms, or a decision by an association of firms, is prohibited if it is between parties in a horizontal relationship and if a bidder (s) is / are or a contractor(s) was / were involved in collusive bidding (or bid rigging).
	34.2	If a bidder(s) or contractor(s), based on reasonable grounds or evidence obtained by the purchaser, has / have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and possible imposition of administrative penalties as contemplated in the Competition Act No. 89 of 1998.

- 34.3 If a bidder(s) or contractor(s), has / have been found guilty by the Competition Commission of the restrictive practice referred to above, the purchaser may, in addition and without prejudice to any other remedy provided for, invalidate the bid(s) for such item(s) offered, and / or terminate the contract in whole or part, and / or restrict the bidder(s) or contractor(s) from conducting business with the public sector for a period not exceeding ten (10) years and / or claim damages from the bidder(s) or contractor(s) concerned.

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKOGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 1</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>PRELIMINARIES</u></b></p> <p><b><u>NOTES TO CONDITIONS OF CONTRACT</u></b></p> <p>i) The <b>principal building agreement</b> applicable for the construction work shall be the <b>May 2018 Edition 6.2.</b></p> <p>ii) The May 2018 Edition <b>Preliminaries</b> for use with the principal building agreement as recommended by the <b>JBCC</b> constituents as amended by these <b>bill of quantities</b> shall be deemed to be incorporated herein.</p> <p>iii) The applicable architectural and engineering specifications included elsewhere in the Documents will be applicable to this contract.</p> <p>iv) Tenderers are referred to the above mentioned documents for the full intent and meaning of each clause thereof. These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not applicable to this contract, they will be marked "n/a". Any modifications/corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional preliminary clauses are contained in Section "C" thereof.</p> <p>v) Where modifications or amendments as described are made, such modifications and/or amendments shall supersede any conflicting provision in the relevant clauses of the <b>JBCC</b> series 2000 preliminaries of the <b>JBCC</b> 2000 principal building agreement and the due allowance shall deemed to have been made for whatever costs and charges necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.</p>			
	<b>Carried to Collection</b>		R	
	<p>Section No. 1</p> <p>Bill No 1 - Preliminaries</p> <p><b>PROVISIONAL BILLS OF QUANTITIES</b></p>			



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p>vi) No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items, in these <b>bills of quantities</b>, which are fully described when read in conjunction with the relevant clauses of the said <b>principal building agreement, preliminaries and preambles</b>.</p> <p>vii) The tenderer shall allow opposite each of the clauses for whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the tenderer's omission to price any item will be entertained.</p> <p>viii) Any item not applicable to this contract is marked N/A.</p> <p>ix) 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 variable in proportion of time</p> <p>x) Any reference to words "tender" or "tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the word "bid" or "bidder".</p> <p>xi) Unless otherwise stated reference to trade names in descriptions shall also mean "any other similar and approved alternative product"</p> <p>xii) State substitution clauses (Clause 41.0) will be applicable to this contract</p>			
	<b>Carried to Collection</b>		R	
	<p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p><b><u>SECTION A: PRINCIPAL BUILDING AGREEMENT (JBCC SERIES 2000 - CODE 2101 EDITION 4.1, MARCH 2005)</u></b></p> <p><b><u>DEFINITIONS (A1)</u></b></p> <p>1 Definitions and interpretation (Clause 1.0)</p> <p>Refer to Section C1.2 Contract Data for amendments to this clause.</p> <p>F:..... T:..... V:.....</p> <p><b><u>OBJECTIVES AND PREPARATION (A2)</u></b></p> <p>2 Offer, acceptance and performance (Clause 2.0)</p> <p>F:..... T:..... V:.....</p> <p>3 Documents (Clause 3.0)</p> <p>Refer to Section C1.2 Contract Data for amendments to this clause.</p> <p>F:..... T:..... V:.....</p> <p>4 Design responsibility (Clause 4.0)</p> <p>Refer to Section C1.2 Contract Data for amendments to this clause.</p> <p>F:..... T:..... V:.....</p> <p>5 Employer's agents (Clause 5.0)</p> <p>Refer to Section C1.2 Contract Data for amendments to this clause.</p> <p>F:..... T:..... V:.....</p> <p>6 Site representative (Clause 6.0)</p> <p>F:..... T:..... V:.....</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>	<p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p>		
			R	

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

7	<p>Compliance with regulations (Clause 7.0)</p> <p>Without limiting the generality of the provision of clause 7.0 of the agreement, the <b>contractor's</b> attention is drawn to the provision of the Construction Regulations, 2014 issued in terms of the Occupational Health and Safety Act, 1993 in which it is specifically stated that the <b>employer</b> shall prepare a base line and risk assessment and health and safety specification for the works and that the <b>employer</b> shall ensure that the <b>contractor</b> has made provision for the cost of health and safety measures during the execution of the works. The <b>principal agent</b> shall, on behalf of the <b>employer</b>, issue such health and safety specifications and the <b>contractor</b> shall price opposite this item for compliance with the act and the regulations and the provision of the aforementioned health and safety specification, including obtaining necessary approvals, implementing his "SHE" plan, etc. provided such provisions are reasonable in terms of the act and the regulations</p> <p>F:..... T:..... V:.....</p>				
		Item			
8	<p>Works risk (Clause 8.0)</p> <p>F:..... T:..... V:.....</p>				
		Item			
9	<p>Indemnities (Clause 9.0)</p> <p>Refer to Section C1.2 Contract Data for amendments to this clause.</p> <p>F:..... T:..... V:.....</p>				
		Item			
10	<p>Works insurances (Clause 10.0)</p> <p>Refer to Section C1.2 Contract Data for amendments to this clause.</p> <p>F:..... T:..... V:.....</p>				
		Item			
11	<p>Liability insurances (Clause 11.0)</p> <p>F:..... T:..... V:.....</p>				
		Item			
<b>Carried to Collection</b>				R	
<p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

12	Effecting insurances (Clause 12.0)  F:..... T:..... V:.....	Item			
13	No clause (Clause 13.0)  F:..... T:..... V:.....	Item			
14	Security (Clause 14.0)  Refer to Section C1.2 Contract Data for amendments to this clause.  F:..... T:..... V:.....	Item			
<b><u>EXECUTION (A15 - A23)</u></b>					
15	Preparation for and execution of the works (Clause 15.0)  Refer to Section C1.2 Contract Data for amendments to this clause.  F:..... T:..... V:.....	Item			
16	Access to the works (Clause 16.0)  F:..... T:..... V:.....	Item			
17	Contract instructions (Clause 17.0)  F:..... T:..... V:.....	Item			
18	Setting out of the works (Clause 18.0)  Refer to Section C1.2 Contract Data for amendments to this clause.  F:..... T:..... V:.....	Item			
19	Assignment (Clause 19.0)  F:..... T:..... V:.....	Item			
<b>Carried to Collection</b>			R		
Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

20	Nominated subcontractors (Clause 20.0)  Refer to Section C1.2 Contract Data for amendments to this clause.  F:..... T:..... V:.....	Item		
21	Selected subcontractors (Clause 21.0)  Refer to Section C1.2 Contract Data for amendments to this clause.  F:..... T:..... V:.....	Item		
22	Employer's direct contractors (Clause 22.0)  F:..... T:..... V:.....	Item		
23	Contractor's domestic subcontractors (Clause 23.0)  F:..... T:..... V:.....	Item		
<b><u>COMPLETION (A24 - A30)</u></b>				
24	Practical completion (Clause 24.0)  F:..... T:..... V:.....	Item		
25	Works completion (Clause 25.0)  Refer to Section C1.2 Contract Data for amendments to this clause.  F:..... T:..... V:.....	Item		
26	Final completion (Clause 26.0)  Refer to Section C1.2 Contract Data for amendments to this clause.  F:..... T:..... V:.....	Item		
<b>Carried to Collection</b>			R	
Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

27	Latent defects liability period (Clause 27.0)  F:..... T:..... V:.....	Item		
28	Sectional completion (Clause 28.0)  Refer to Section C1.2 Contract Data for amendments to this clause.  F:..... T:..... V:.....	Item		
29	Revision of date of practical completion (Clause 29.0)  Refer to Section C1.2 Contract Data for amendments to this clause.  F:..... T:..... V:.....	Item		
30	Penalty for non-completion (Clause 30.0)  Refer to Section C1.2 Contract Data for amendments to this clause.  F:..... T:..... V:.....	Item		
<b><u>PAYMENT (A31 - A35)</u></b>				
	Interim payment to the <b>contractor</b> (Clause 31.0)  Refer to Section C1.2 Contract Data for amendments to this clause.			
31	F:..... T:..... V:.....	Item		
32	Adjustment to the contract value (Clause 32.0)  Refer to Section C1.2 Contract Data for amendments to this clause.  F:..... T:..... V:.....	Item		
<b>Carried to Collection</b>			R	
Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

33	Recovery of expense and loss (Clause 33.0)  Refer to Section C1.2 Contract Data for amendments to this clause.  F:..... T:..... V:.....	Item			
34	Final account and final payment (Clause 34.0)  Refer to Section C1.2 Contract Data for amendments to this clause.  F:..... T:..... V:.....	Item			
35	Payment to other parties (Clause 35.0)  F:..... T:..... V:.....	Item			
<b><u>CANCELLATION (A36 - A39)</u></b>					
36	Cancellation by employer - contractor's default (Clause 36.0)  Refer to Section C1.2 Contract Data for amendments to this clause.  F:..... T:..... V:.....	Item			
37	Cancellation by employer - loss and damage (Clause 37.0)  Refer to Section C1.2 Contract Data for amendments to this clause.  F:..... T:..... V:.....	Item			
38	Cancellation by contractor - employer's default (Clause 38.0)  Refer to Section C1.2 Contract Data for amendments to this clause.  F:..... T:..... V:.....	Item			
<b>Carried to Collection</b>			R		
Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b>					



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

39	Cancellation - cessation of the works (Clause 39.0)  Refer to Section C1.2 Contract Data for amendments to this clause.  F:..... T:..... V:.....  <b><u>DISPUTE (A40)</u></b>	Item	
40	Dispute settlement (Clause 40.0)  F:..... T:..... V:.....  <b><u>STATE PROVISIONS (A41)</u></b>	Item	
41	State substitutions (Clause 41.0)  Refer to Section C1.2 Contract Data for amendments to this clause.  F:..... T:..... V:.....  <b><u>ADDITIONS TO THE JBCC PRINCIPAL AGREEMENT</u></b>	Item	
42	<b>Clause A1: Labour intensive component of the works</b>  Refer to Section C1.2 Contract Data for amendments to this clause.  <b>Clause A2: Expanded Public Works Programme</b>  Refer to Section C1.2 Contract Data for amendments to this clause.  <b>Clause A3: Mandatory Training</b>  Refer to Section C1.2 Contract Data for amendments to this clause.  <b><u>CONTRACT VARIABLES (A42)</u></b>  <b>THE SCHEDULE</b>		
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<b>Carried to Collection</b>			
Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p>The <b>schedule</b> contains all variables referred to in this document and is divided into pre-tender and post tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post tender categories form part of this <b>agreement</b>.</p> <p>Spaces requiring information must be filled in, shown as 'not applicable' or deleted and 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. Reference clauses are italicized in [ ] brackets.</p>				
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>		R		

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<p><b>42.0 PRE-TENDER INFORMATION</b></p>				
<p><b>42.1 CONTRACTING AND OTHER PARTIES</b></p>				
<p>42.1.1 Employer:</p>				
<p><b>DEPARTMENT OF HEALTH, NORTH WEST PROVINCE</b></p>				
<p>Postal address:</p>				
<p>Tel</p>				
<p>Fax</p>				
<p>Physical address</p>				
<p>E-mail</p>				
<p align="right"><b>Carried to Collection</b></p>			R	
<p>Section No. 1 Bill No 1 - Preliminaries</p>				
<p><b>PROVISIONAL BILLS OF QUANTITIES</b></p>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p><b>42.2 CONTRACT DETAILS</b></p> <p>42.2.1 <b>Works</b> description: <b>The Works</b> comprises the alterations and renovations of Lehurutshe District Hospital including walkways, fencing, as well as the related civil works (roads, fire water, water supply and storage) and electrical and mechanical works.</p> <p>42.2.2 <b>Site</b> description: The site for the Works is the existing Lehurutshe District Hospital</p> <p>LM Mangope Highway Lehurutshe 2880</p> <p>42.2.3 Work or installations by <b>direct contractors</b>:</p> <p>[22.2] <b>N/A</b></p> <p>42.2.4 Specific options that are applicable to a <b>State</b> organ only: Yes</p> <p>[41.0] Where so: [1.1#]</p> <p>[31.11.2#] (1) Interest rate legislation: The interest rate</p> <p>[31.12.2#] 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)</p> <p>[11.2#] (2) Lateral support insurance to be affected by the</p> <p style="text-align: center;"><b>contractor</b> (yes/no) <b>N/A</b></p> <p>[31.4.2#] (3) Payment will be made for <b>materials and goods</b></p> <p style="text-align: center;">(yes/no) <b>YES</b></p> <p>[40.2.2#] (4) Dispute resolution by litigation (yes/no) <b>NO</b></p> <p style="text-align: center;">Dispute resolution by adjudication</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			
			R	

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<p>[26.1.2#] (5) Extended <b>defects</b> liability period applicable to</p> <p style="padding-left: 40px;">the following elements:</p> <p>Add the following to the end of clause 26.1.2:</p> <p>"All civil, electrical, electronic, HVAC, fire detection, gas suppression and other specialist installations are subject to a three hundred and sixty five (365) <b>calender days</b> defects liability and maintenance period"</p> <p>42.2.5 Possession of the site is intended to be given within</p> <p>[15.2.1#] ten (10) <b>working</b> of the <b>contractor</b> complying with the terms of sub-clause 15.1.4 (as amended)</p> <p>42.2.6 Period for the commencement of the <b>works</b> after the</p> <p>[15.3] contractor takes possession of the <b>site</b> <b>(Working days) 10 (Ten)</b></p> <p style="padding-left: 40px;">Intended dates of completion:</p> <p>42.2.7 for the <b>works</b> as a whole:</p> <p>[24.3.1, The date for <b>practical completion</b> and the <b>penalty</b> per</p> <p>30.1] <b>calender day</b></p> <p style="padding-left: 40px;">Date <b>Eighteen (18) months after contractual commencement date</b></p> <p style="padding-left: 40px;">Penalty amount <b>1,5c per R 100.00 of the contract value</b></p> <p><b>AND</b></p> <p>42.2.8 For the <b>works</b> in <b>sections</b>:</p> <p>[24.3.1] The date for <b>practical completion</b> and the <b>penalty</b></p> <p>[28.1] per <b>calendar day</b></p> <p>Refer to Section C1.2 Contract Data and Part C : Scope of Work for detailed descriptions of Sections.</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>				
			R	

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p>42.2.9 The <b>law</b> applicable to this <b>agreement</b> shall be that of [1.1] (Country) <b>South Africa</b></p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>				
			R		

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<p><b>42.3 INSURANCES</b></p> <p>42.3.1 Contract works insurance to be effected by [10.1#, 10.2#] (<b>employer/contractor</b>)                 <b>contractor</b> 12.1#]</p> <p>For the sum of (amount) <b>contract sum</b>   <b>+10%</b></p> <p>With a deductible of (amount)   <b>R 10 000.00</b></p> <p>42.3.2 Supplementary insurance is required [10.1#, 10.2#] (yes/no)   <b>YES</b> 12.1#]</p> <p>Coupon Policy for Special Risks issued by the South African Special Risk Insurance Association</p> <p><b>SASRIA Insurance</b> will be effected by the <b>contractor</b> to the <b>contract sum + 10%</b></p> <p>42.3.3 Public liability insurance to be effected by [11.1#, 12.1#] (<b>employer/contractor</b>)                 <b>contractor</b></p> <p>For the sum of (amount)                                 <b>R 5</b> <b>000 000.00</b></p> <p>With a deductible of (amount)   <b>R      10</b> <b>000.00</b></p> <p>42.3.3 Support insurance to be effected by <b>contractor</b> [11.2#, 12.1#] For the sum of (amount)                         <b>N/A</b></p> <p>With a deductible of (amount)                         <b>N/A</b></p> <p><b>42.4 DOCUMENTS</b></p> <p>42.4.1 Waiver of the <b>contractor's</b> lien or right of continuing [3.3, possession is required 15.1.3, (yes/no)   <b>YES</b> 31.16.2#]</p>					
<b>Carried to Collection</b>					R
Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b>					



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<p>42.4.2 Construction document copies to be supplied to the</p> <p>[3.7]     <b>contractor</b> free of charge             (number of drawings)                 <b>3 (three)</b></p> <p><b>42.4.3 Bills of quantities/ lump sum document</b> schedule of rates drawn up in accordance with</p> <p><b>Building Work: Sixth edition of the Standard System of measuring building work (Latest revision)</b></p> <p><b>Civil Work: SANS 1200 and COLTO Specifications</b></p> <p><b>Electrical, Electronic, Medical gas and HVAC Work: Engineers Specifications</b></p> <p>42.4.4 On acceptance of the tender the <b>bills of quantities/ [15.1.1] lump sum document</b> is to be submitted within <b>working days</b>             (number of working days)                 <b>Complete</b> <b>priced bill</b>   <b>of</b> <b>quantities to be</b>   <b>submitted with</b>   <b>tender</b></p> <p>42.4.5 <b>JBCC Engineering General Conditions</b> are to be [3.4] included in the <b>contract documents</b>             (yes/no)   <b>NO</b></p> <p>42.4.6 The <b>contract value</b> is to be adjusted using <b>CPAP</b> [31.5.3] indices             (yes/no)   <b>NO</b></p> <p>[32.13] Where <b>JBCC CPAP</b> is to be used (base month)   <b>N/A</b></p> <p style="padding-left: 80px;">Alternative Indices (if applicable) <b>N/A</b></p> <p>42.5.3 There is no latest day of the month for the issue of an [31.3] interim payment certificate</p> <p>42.5.7 The <b>construction guarantee</b> is to be a fixed [14.3 &amp; 14.4] guarantee in an amount of 7,5% of the contract sum and payment reduction</p> <div style="text-align: right;"><b>Carried to Collection</b></div> <p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>				R
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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p>42.5.7 The <b>employer</b> will not provide advance payments [14.5] against an advance payment guarantee</p> <p>42.7 Dispute resolution shall be by [42.7.1] adjudication</p> <p>42.4.7 Details of changes made to the provisions of <b>JBCC</b> [3.10] standard documentation</p> <p><b>A. Principal Building Agreement</b></p> <p>Clause 1</p> <p>Clause 3</p> <p>Clause 4</p> <p>Clause 5</p> <p>Clause 7</p> <p>Clause 9</p> <p>Clause 10</p> <p>Clause 14</p> <p>Clause 15</p> <p>Clause 18</p> <p>Clause 20</p> <p>Clause 21</p> <p>Clause 25</p> <p>Clause 26</p> <p>Clause 29</p> <p>Clause 30</p> <p>Clause 31</p> <p>Clause 32</p> <p>Clause 33</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			
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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p><b>B. JBCC Preliminaries</b></p> <p>the <u>Section B: Changes and/or additions made to the following clauses</u></p> <p>Clause B2.1    Note added</p> <p>Clause B2.5    Note added</p> <p>Clause B2.6    Note added</p> <p>Clause B3.1    Note added</p> <p>Clause B3.2    Note added</p> <p>Clause B3.3    Note added</p> <p>Clause B3.4    Note added</p> <p>Clause B4.1    Amended</p> <p>Clause B4.2    Note added</p> <p>Clause B5.1    Amended</p> <p>Clause B6.6    Amended</p> <p>Clause B10.1   Note added</p> <p>Clause B10.3   Amended</p> <p>Clause B11.2   Note added</p> <p>Clause B11.3   Note added</p> <p>Also refer to Section C2.1 Pricing Instructions for changes and /or additions applicable to the Preliminaries in Section B above</p> <p>Section C2.1 will take precedence to clause B1 to B6</p> <p><b>42.0 POST TENDER INFORMATION</b></p> <p>Post tender information required under clauses 42.5 to 42.8 inclusive shall be completed prior to contract signing, in consultation with the contractor</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			
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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKOGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>SECTION B: PRELIMINARIES (JBCC SERIES 2000 - CODE 2103 - MAY 2005)</u></b>					
<b><u>DEFINITION AND INTERPRETATION (B1)</u></b>					
43	Definitions and interpretation (B1.1 - B1.4.6)  F:..... T:..... V:.....	Item			
<b><u>DOCUMENTS (B2)</u></b>					
44	Checking of documents (B2.1)  The items in these bills of quantities are to be read and priced in conjunction with and the descriptions regarded as amplified by the engineering and architectural specifications and no claim arising from brevity of description of items fully described in the said engineering and architectural specifications will be entertained  F:..... T:..... V:.....	Item			
45	Provisional bills of quantities (B2.2)  F:..... T:..... V:.....	N/A			
46	Availability of construction documentation (B2.3)  F:..... T:..... V:.....	Item			
47	Interests of agents (B2.4)  F:..... T:..... V:.....	Item			
<b>Carried to Collection</b>				R	
Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

48	<p>Priced documents (B2.5)</p> <p>The complete priced bill of quantities must be submitted with the tender.</p> <p>Where appropriate, rates for similar items in the various sections of the bills of quantities must be the same. The <b>principal agent</b> shall be at liberty to make adjustments to any individual rates or note, as to eliminate errors, discrepancies of what he considered to be unreasonable or unbalanced rates, without altering the contract sum, prior to signing the contract.</p> <p>F:..... T:..... V:.....</p>	Item			
49	<p>Tender submission (B2.6)</p> <p>The <b><u>complete priced bill of quantities</u></b> (Part C2.1) must be submitted with the tender.</p> <p>Notwithstanding anything contained in this clause tenders shall be valid for a period of <b>ninety (90) days</b> from the closing date of tenders</p> <p>F:..... T:..... V:.....</p> <p><b><u>THE SITE (B3)</u></b></p>	Item			
50	<p>Defined works area (B3.1)</p> <p>The area of the works to be occupied by the <b>contractor</b>, any restriction on the area and the limit of access or exit will be pointed out to the <b>contractor</b> by the <b>principal agent</b> during the handing over of the site.</p> <p>F:..... T:..... V:.....</p>	Item			
51	<p>Geotechnical investigation (B3.2)</p> <p>No material investigation Report is available</p> <p>F:..... T:..... V:.....</p>	Item			
<b>Carried to Collection</b>			R		
<p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKOGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

52	<p>Inspection of the site (B3.3)</p> <p>No claims for extras arising from the <b>contractor</b> having failed to comply with this clause will be entertained. A formal compulsory site inspection will be held on <b>NOT APPLICABLE</b></p> <p>Tenderers shall complete the certificate of tenderer's attendance at the site/clarification meeting included in the tender documents and return the same with the tender submission. <b>NOT APPLICABLE</b></p> <p>F:..... T:..... V:.....</p>	Item			
53	<p>Existing premises occupied (B3.4)</p> <p>The site of the existing Nurses Training Facility College will be operational for the full duration of the contract</p> <p>F:..... T:..... V:.....</p>	Item			
54	<p>Previous work - dimensional accuracy (B3.5)</p> <p>F:..... T:..... V:.....</p>	Item			
55	<p>Previous work - defects (B3.6)</p> <p>F:..... T:..... V:.....</p>	Item			
56	<p>Services - known (B3.7)</p> <p>F:..... T:..... V:.....</p>	Item			
57	<p>Services - unknown (B3.8)</p> <p>F:..... T:..... V:.....</p>	Item			
58	<p>Protection of trees (B3.9)</p> <p>F:..... T:..... V:.....</p>	Item			
59	<p>Articles of value (B3.10)</p> <p>F:..... T:..... V:.....</p>	Item			
<b>Carried to Collection</b>			R		
<p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

60	<p>Inspection of adjoining properties (B3.11)</p> <p>F:..... T:..... V:.....</p> <p><b><u>MANAGEMENT OF CONTRACT (B4)</u></b></p>	Item			
61	<p>Management of the works (B4.1)</p> <p>Clause 4.1 is hereby amended by the addition of the following:</p> <p>"The <b>contractor</b> shall, to the satisfaction of the <b>principal agent</b>, provide the services of an experienced and competent full time on site construction manager supported by a management team who shall, inter alia participate in all activities of the <b>contractor</b> and all <b>subcontractors</b> concerning this project and in particular:</p> <ul style="list-style-type: none"> <li>a) programming</li> <li>b) scheduling</li> <li>c) reporting</li> <li>d) expediting and co-ordinating</li> <li>e) procurement</li> <li>f) liaison and co-ordination of construction</li> <li>g) commissioning, instruction, handover and follow-up</li> <li>h) monitoring and reporting on building activities taking place on site</li> <li>i) quality control procedures</li> <li>j) safety regulation requirements</li> </ul> <p>The names and CVs of the <b>contractor's</b> site management team shall be submitted to the <b>principal agent</b> prior to commencement on site and after the <b>principal agent's</b> agreement on the composition thereof has been obtained, no changes shall be made nor shall any member of the said team be removed from site while remaining in the employ of the <b>contractor</b> without the <b>principal agent's</b> express written approval."</p> <p>F:..... T:..... V:.....</p>	Item			
<b>Carried to Collection</b>				R	
<p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>					



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

62	<p>Programme for the works (B4.2)</p> <p>Tenderers shall submit preliminary programmes with the tenders and the appointed <b>contractor</b> shall submit the contract programme within <b>ten (10) working days</b> from taking possession of the <b>site</b></p> <p>F:..... T:..... V:.....</p>	Item			
63	<p>Progress meetings (B4.3)</p> <p>F:..... T:..... V:.....</p>	Item			
64	<p>Technical meetings (B4.4)</p> <p>F:..... T:..... V:.....</p>	Item			
65	<p>Labour and plant records (B4.5)</p> <p>F:..... T:..... V:.....</p>	Item			
	<p><b><u>SAMPLES, SHOP DRAWINGS AND MANUFACTURER'S INSTRUCTIONS (B5)</u></b></p>				
66	<p>Samples of materials (B5.1)</p> <p>Clause 5.1 is hereby amended by the addition of the following:</p> <p>"The <b>principal agent</b> may reject any materials or colours not corresponding with the approved samples. The approved samples shall be kept on site until completion of the works.</p> <p>Should any materials or items specified prove to be either unavailable, in poor supply or likely to cause delay to the works, the <b>contractor</b> shall notify the <b>principal agent</b> in sufficient time for suitable alternatives to be considered. Any claims for delays resulting from the <b>contractor</b> not conforming with the terms of this clause will not be entertained or allowed.</p> <p>F:..... T:..... V:.....</p>	Item			
	<p style="text-align: right;"><b>Carried to Collection</b></p>			R	
	<p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

67	Workmanship samples (B5.2) F:..... T:..... V:.....	Item			
68	Shop drawings (B5.3) F:..... T:..... V:.....	Item			
69	Compliance with manufacturer's instructions (B5.4) F:..... T:..... V:.....	Item			
<b><u>TEMPORARY WORKS AND PLANT (B6)</u></b>					
70	Deposits and fees (B6.1) F:..... T:..... V:.....	Item			
71	Enclosure of the works (B6.2) F:..... T:..... V:.....	Item			
72	Advertising (B6.3) F:..... T:..... V:.....	Item			
73	Plant, equipment, sheds and offices (B6.4) F:..... T:..... V:.....	Item			
74	Main noticeboard (B6.5) F:..... T:..... V:.....	Item			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

75	<p>Subcontractor's noticeboard (B6.6)</p> <p>Clause B6.6 will be deleted and replaced with the following:</p> <p>"No notice boards, individual boards or advertising on site will be allowed by <b>subcontractors</b>."</p> <p>F:..... T:..... V:.....</p> <p><b><u>TEMPORARY SERVICES (B7)</u></b></p>	Item			
76	<p>Location (B7.1)</p> <p>F:..... T:..... V:.....</p>	Item			
77	<p>Water (B7.2)</p> <p>F:..... T:..... V:.....</p>	Item			
78	<p>Electricity (B7.3)</p> <p>F:..... T:..... V:.....</p>	Item			
79	<p>Telecommunication facilities (B7.4)</p> <p>F:..... T:..... V:.....</p>	Item			
80	<p>Ablution facilities (B7.5)</p> <p>F:..... T:..... V:.....</p> <p><b><u>PRIME COST AMOUNTS (B8)</u></b></p>	Item			
81	<p>Responsibility for prime cost amounts (B8.1)</p> <p>F:..... T:..... V:.....</p> <p><b><u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u></b></p>	Item			
82	<p>General attendance (B9.1)</p> <p>F:..... T:..... V:.....</p>	Item			
<b>Carried to Collection</b>			R		
<p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKOGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

83	Special attendance (B9.2) F:..... T:..... V:.....	Item		
84	Commissioning - fuel, water and power (B9.3) F:..... T:..... V:.....	Item		
<b><u>FINANCIAL ASPECTS (B10)</u></b>				
85	Statutory taxes, duties and levies (B10.1) Provision is made in the Final Summary of the <b>bill of quantities</b> for the inclusion of Value Added Tax (VAT) F:..... T:..... V:.....	Item		
86	Payment of preliminaries (B10.2) F:..... T:..... V:.....	Item		
87	Adjustment of preliminaries (B10.3) Should the <b>contractor</b> select Option B but fail to provide the information required prior to the signing of the contract, the <b>principal agent</b> shall have the right to select either Option A or B for the adjustment of preliminaries. If the <b>principal agent</b> selects Option B he shall be entitled to make assumptions at his discretion regarding the information which the <b>contractor</b> would normally have provided prior to the signing of the contract. F:..... T:..... V:.....	Item		
88	Payment certificate cash flow (B10.4) F:..... T:..... V:.....	Item		
<b><u>GENERAL (B11)</u></b>				
89	Protection of the works (B11.1) F:..... T:..... V:.....	Item		
90	Protection/isolation of existing/sectionally occupied works (B11.2)			
<b>Carried to Collection</b>			R	
Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKOGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p>Refer to Section C1.2 Contract Data and Part C : Scope of Work for Sectional Completion to enable existing building occupation and college education / training programme to proceed uninterrupted.- <b>NOT APPLICABLE</b></p> <p>F:..... T:..... V:.....</p>				
91	<p>Security of the works (B11.3)</p> <p>The <b>contractor</b> shall provide and maintain his own site security and loss control systems to the works area. No employees of the contractor will be allowed to sleep on the Site or to enter any area outside the construction areas. No access to existing occupied buildings will be allowed.</p> <p>F:..... T:..... V:.....</p>	Item			
92	<p>Notice before covering work (B11.4)</p> <p>F:..... T:..... V:.....</p>	Item			
93	<p>Disturbance (B11.5)</p> <p>F:..... T:..... V:.....</p>	Item			
94	<p>Environmental disturbance (B11.6)</p> <p>F:..... T:..... V:.....</p>	Item			
95	<p>Works cleaning and clearing (B11.7)</p> <p>F:..... T:..... V:.....</p>	Item			
96	<p>Vermin (B11.8)</p> <p>F:..... T:..... V:.....</p>	Item			
97	<p>Overhand work (B11.9)</p> <p>F:..... T:..... V:.....</p>	Item			
98	<p>Instruction manuals and guarantees (B11.10)</p> <p>F:..... T:..... V:.....</p>	Item			
<b>Carried to Collection</b>			R		
<p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

99	As built information (B11.11) F:..... T:..... V:.....	Item			
100	Tenant installations (B11.12) F:..... T:..... V:.....	Item			
<b>12.0 SCHEDULES OF VARIABLES</b>					
<b>12.1 PRE-TENDER INFORMATION</b>					
<p>This <b>schedule</b> contains all variables referred to in this document and is divided into pre-tender and post tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post tender categories form part of the preliminaries.</p> <p>Spaces requiring information must be filled in, shown as 'not applicable' or deleted and 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 <b>schedule</b>. Key cross reference clauses are italicized in [ ] <i>brackets</i>.</p>					
<p><b>12.1.1 Provisional bills of quantities</b> [2.2]</p> <p>The quantities are provisional (yes/no) <b>YES</b></p>					
<p><b>12.1.2 Availability of construction</b> [2.3]</p> <p>Construction documentation is complete (yes/no) <b>YES</b></p>					
<p><b>12.1.3 Interests of agents</b> [2.4]</p> <p>Details: <b>N/A</b></p>					
<b>Carried to Collection</b>				R	
<p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p>12.1.4 <b>Defined works area</b> [3.1] The area of the works to be occupied by the</p> <p>12.1.5 <b>Geotechnical investigation</b> [3.2] <b>N/A</b></p> <p>12.1.6 <b>Existing premises occupied</b> [3.4] Specific requirements:  The existing functional buildings will be occupied throughout the construction phase.</p> <p>12.1.7 <b>Previous work - dimensional accuracy</b> [3.5]</p> <p>12.1.8 <b>Previous work - defects</b> [3.6] <b>N/A</b></p> <p>12.1.9 <b>Services - known</b> [3.7] Existing services will be pointed out on site by the <b>principal agent</b>.</p> <p>12.1.10 <b>Protection of trees</b> [3.9] Specific requirements: <b>N/A</b></p> <p>12.1.11 <b>Inspection of adjoining properties</b> [3.11] Specific requirements: Inspections and recording status of existing buildings to be documented by the <b>contractor</b></p> <p>12.1.12 <b>Enclosure of the works</b> [6.2] All areas of work will be enclosed by the <b>contractor</b> in accordance to the construction Regulations requirements and the cost thereof is deemed to be included in the rates tendered in this Preliminaries and General Bill</p>			
	<b>Carried to Collection</b>		R	
	<p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<div>12.1.13 <b>Offices</b> [6.4.3] <div>Three offices will be required by the <b>employer</b>.</div></div> <div>12.1.14 <b>Main notice board</b> [6.5] <div>Specific requirements: Allow for one (1) main notice board to be erected in the position as directed by <b>principal agent</b>.</div></div> <div>12.1.15 <b>Subcontractors' notice board</b> [6.6] <div>A notice board is required (yes/no)<div>NO</div></div></div> <div>12.1.16 <b>Water</b> [7.2] <div>Option A (by <b>contractor</b>) (yes/no)<div>YES</div></div><div>Option B (by <b>employer</b> NO</div><div>Option C (by <b>employer</b> - metered.)</div></div> <div>12.1.17 <b>Electricity</b> [7.3] <div>Option A (by <b>contractor</b>) (yes/no)<div>YES</div></div><div>Option B (by <b>employer</b> - free of charge. (yes/no)<div>NO</div></div><div>Option C (by <b>employer</b> - metered) (yes/no)<div>YES</div></div></div> <div>12.1.18 <b>Telecommunications</b> [7.4] <div>Telephone</div><div>Facsimile</div><div>E-mail</div></div> <div>12.1.19 <b>Ablution facilities</b> [7.5]</div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								</
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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	Option A (by <b>contractor</b> )	(yes/no)				
	Option B (by <b>employer</b> )	(yes/no)				
12.1.20	<b>Protection of existing/sectionally occupied works</b>					
[11.2]	Protection is required					
12.1.21	<b>Special attendance</b>					
[9.2]	<b>Subcontractor</b> (1) details:	<b>N/A</b>				
	<b>Subcontractor</b> (2) details:	<b>N/A</b>				
	<b>Subcontractor</b> (3) details:	<b>N/A</b>				
	<b>Subcontractor</b> (4) details:	<b>N/A</b>				
12.1.22	<b>Protection of the works</b>					
[11.1]	Specific requirements: All existing structures, roads, services etc on the Site must be protected.					
12.1.23	<b>Disturbance</b>					
[11.5]	Specific requirements: All work is to be carried out in such a manner as to cause no unacceptable and unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to others, other properties and traffic. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the <b>construction period</b> or <b>contract sum</b> whatsoever.					
	There shall be as little disturbance as possible as other properties or areas adjacent to the Site will be operational during the duration of this contract.					
	Whilst the <b>employer</b> shall not impose restrictions upon the <b>contractor's</b> working hours, the					
	<b>Carried to Collection</b>				R	
Section No. 1						
Bill No 1 - Preliminaries						
<b>PROVISIONAL BILLS OF QUANTITIES</b>						

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

12.1.24 <b>Environmental disturbance</b> [11.6]	Specific requirements: To comply with guidelines and requirements as per the Health and Safety Specification from the <b>employer</b> .				
<b>12.2 POST TENDER INFORMATION</b>					
Post tender information required under clauses	12.2.1 to 12.2.3 shall be completed prior to contract signing, in consultation with the				
B12.2.1 <b>Payment of preliminaries</b> [10.2]	Option A (prorated) (yes)  Option B (calculated) (no)				
B12.2.2 <b>Adjustment of preliminaries</b> [10.3]	Option A (three categories) (no)  Option B (detailed breakdown) (yes)				
B12.2.3 <b>Additional preliminaries items</b>	Details: Refer to Section C hereof				
<b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>					
The following clauses are additional to, or augment the clauses contained in sections “A” and “B” of these preliminaries.					
<b><u>1. THE SITE</u></b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

101	<p><b><u>SITE (C1)</u></b></p> <p>Tenderers are advised to visit the site and acquaint themselves fully with any site restrictions that might influence their tender prices, with specific attention to the following:</p> <ul style="list-style-type: none"> <li>a. restrictions imposed by existing structures</li> <li>b. construction activities</li> <li>c. movement on and access to and from the site regarding construction</li> <li>d. site enclosures, hoarding, etc</li> <li>e. safety and security measures, etc</li> <li>f. environmental impact compliance</li> <li>g. radio frequency interference aspect</li> </ul> <p>No claims whatsoever in this regard will be entertained.</p> <p>F:..... T:..... V:.....</p> <p><b><u>CONTRACTOR'S CAMP (C2)</u></b></p> <p>The <b>contractor</b> may erect an establishment on the construction site in an area as indicated by the <b>principal agent</b> to include offices, stores, etc for his own and <b>subcontractor's</b> use.</p> <p>The <b>contractor</b> will also be responsible for all internal services and connections to the existing services, for fencing to close off his camp site area and for re-instating this area to its original condition at completion of the Works.</p> <p>F:..... T:..... V:.....</p>	Item		
102	<p>The <b>contractor</b> may erect an establishment on the construction site in an area as indicated by the <b>principal agent</b> to include offices, stores, etc for his own and <b>subcontractor's</b> use.</p> <p>The <b>contractor</b> will also be responsible for all internal services and connections to the existing services, for fencing to close off his camp site area and for re-instating this area to its original condition at completion of the Works.</p> <p>F:..... T:..... V:.....</p>	Item		
	<p><b>Carried to Collection</b></p>		R	
	<p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKOGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p><b><u>2. FINANCIAL ASPECTS</u></b></p> <p><b><u>PRICING OF BILLS (C3)</u></b></p> <p>103 All prices include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, erecting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement) patterns, models and templates, plant, temporary works, returning of packing, duties, taxes, imposts, establishment charges, overheads, profit and all other obligations arising out of the contract.</p> <p>Items left unpriced will be deemed to be covered in prices against other items throughout these <b>bills of quantities</b> and no claim for any extras arising out of the omission to price any item will be entertained.</p> <p>Prices for all plant, temporary works, services and other items provided shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary.</p> <p>F:..... T:..... V:.....</p> <p><b><u>COST OF CLAIMS (C4)</u></b></p> <p>104 All costs incurred by the <b>contractor</b> in the preparation of claims to the satisfaction of the <b>principal agent</b> and/or quantity surveyor shall be borne by the <b>contractor</b>.</p> <p>F:..... T:..... V:.....</p> <p><b><u>PRICES FOR VARIATIONS (C5)</u></b></p> <p>105 Where prices or quotations for variations are submitted by the <b>contractor</b> during the duration of the contract, it shall be clearly understood that these are for the purpose of consideration only and that there is no assumption of acceptance.</p> <p>F:..... T:..... V:.....</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			
		Item		
		Item		
		Item		
			R	

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKOGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

106	<p><b><u>WORK SCOPE CHANGES (C6)</u></b></p> <p>It is a tender requirement that <u>all</u> rates in the <b>bill of quantities</b> be priced as stand alone rates which will be used to determine the value of any omitted work or scope of work change.</p> <p>Notwithstanding the provisions of clause 32.0 or any other clause no claims whatsoever in this regard will be entertained.</p> <p>F:..... T:..... V:.....</p> <p><b><u>NON CESSION OF MONIES (C7)</u></b></p> <p>The <b>contractor</b> shall not cede nor assign his rights or claims to any monies due or to become due under this contract.</p> <p>F:..... T:..... V:.....</p> <p><b><u>3. INSPECTIONS, GUARANTEES AND MAINTENANCE INSTRUCTIONS/MANUALS</u></b></p> <p><b><u>INSPECTION CERTIFICATES, GUARANTEES AND MAINTENANCE INSTRUCTIONS/MANUALS (C8)</u></b></p> <p>The <b>contractor</b> is responsible, where applicable, to request for all inspections by the local authorities as well as obtain and hand over to the <b>principal agent</b> the Occupation certificate issued by the local authority.</p> <p>The certificate of <b>practical completion</b> of the project will, where applicable, not be issued by the <b>principal agent</b> without the Occupation certificate from the local authority.</p> <p>The <b>contractor</b> shall obtain and hand over to the <b>principal agent</b> on <b>practical completion</b> all relevant guarantees, any operating and maintenance instruction manuals, data or instructions required by the <b>principal agent</b> or provided by manufacturers, suppliers or <b>subcontractors</b>.</p>	Item		
107	<p>The <b>contractor</b> shall not cede nor assign his rights or claims to any monies due or to become due under this contract.</p> <p>F:..... T:..... V:.....</p>	Item		
108	<p>The <b>contractor</b> is responsible, where applicable, to request for all inspections by the local authorities as well as obtain and hand over to the <b>principal agent</b> the Occupation certificate issued by the local authority.</p> <p>The certificate of <b>practical completion</b> of the project will, where applicable, not be issued by the <b>principal agent</b> without the Occupation certificate from the local authority.</p> <p>The <b>contractor</b> shall obtain and hand over to the <b>principal agent</b> on <b>practical completion</b> all relevant guarantees, any operating and maintenance instruction manuals, data or instructions required by the <b>principal agent</b> or provided by manufacturers, suppliers or <b>subcontractors</b>.</p>			
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>		R	

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

109	<p>Where warranties for materials are called for, the <b>contractor</b> shall obtain a written warranty, addressed to the <b>employer</b>, from the firm supplying the materials and/or doing the work and shall deliver same to the <b>principal agent</b> on the certified completion of the contract. The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the <b>contractor</b>.</p> <p>The <b>contractor</b> shall ensure that all warranties and guarantees received are fully ceded to the <b>employer</b> on <b>final completion</b>, failing which the release of the <b>construction guarantee</b> will be withheld until this is satisfactorily completed.</p> <p>F:..... T:..... V:.....</p> <p><b><u>4. QUALITY ASSURANCE</u></b></p> <p><b><u>INSPECTIONS (C9)</u></b></p> <p>The <b>contractor</b> shall carry out formal inspections of the works at various stages including inter alia, the following:</p> <ol style="list-style-type: none"> <li>a. setting out including orientation and levels</li> <li>b. foundation excavations prior to casting</li> <li>c. surface bed and slabs, columns etc after casting</li> <li>d. window and door frames before building in</li> <li>e. brickwork before plastering</li> <li>f. walls after plastering - internal and external</li> <li>g. roof trusses before roof covering</li> <li>h. roof after roof covering</li> <li>i. finishes <ul style="list-style-type: none"> <li>· ceilings and cornices</li> <li>· wall and floor tiling</li> <li>· cupboards and joinery</li> </ul> </li> </ol> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>	Item		
			R	

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<ul style="list-style-type: none"> <li>· glazing, putty work, painting</li> <li>· overall prior to architect/engineers/principal agents inspection</li> </ul>				
	<p>j. civil related works for mass earthworks, internal roads, parking, bulk services, etc.</p> <p>The inspections shall be recorded in writing by the <b>contractor</b> in a format to be agreed with the <b>principal agent</b>.</p> <p>F:..... T:..... V:.....</p> <p><b><u>5. GENERAL</u></b></p> <p><b><u>COPYRIGHT (C10)</u></b></p> <p>110 The ownership of the copyright in and to all drawings, specifications, models and documents of any nature delivered to the <b>contractor</b> or produced by or on behalf of the <b>contractor</b> in connection with the <b>works</b>, and the artistic character and/or artistic design of the <b>works</b> shall remain vested in and/or is hereby assigned to the <b>employer</b> by the <b>contractor</b>.</p> <p>The <b>contractor</b> undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all <b>subcontractors</b> and suppliers. Such information shall not be used in any way except in connection with the execution of the <b>works</b>.</p> <p>F:..... T:..... V:.....</p> <p><b><u>MEDIA RELEASES, ADVERTISING, ETC (C11)</u></b></p> <p>111 All rights of publication of articles in the media, together with any advertising relating to, or in any way connected with this project, shall vest with the <b>employer</b>.</p> <p>The <b>contractor</b> together with his <b>subcontractors</b> shall not, without the written consent of the <b>employer</b>, cause any statement or advertisement to be printed, screened or aired by the media.</p> <p>F:..... T:..... V:.....</p>	Item			
		Item			
		Item			
	<b>Carried to Collection</b>		R		
	<p>Section No. 1</p> <p>Bill No 1 - Preliminaries</p> <p><b>PROVISIONAL BILLS OF QUANTITIES</b></p>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

112	<p><b><u>SITE INSTRUCTIONS (C12)</u></b></p> <p>Contract instructions on site are to be recorded by the <b>principal agent</b> in a site instruction book which will be issued by the <b>principal agent</b> and which shall be maintained on site.</p> <p>On site instructions issued in such book shall be recognised.</p> <p>F:..... T:..... V:.....</p> <p><b><u>PROPRIETARY BRANDED PRODUCTS (C13)</u></b></p> <p>The <b>contractor</b> shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers or suppliers instructions after consultation with the manufacturer authorized representative.</p> <p>F:..... T:..... V:.....</p> <p><b><u>6. MANAGEMENT</u></b></p> <p><b><u>CONTRACTOR TO BE RESPONSIBLE (C14)</u></b></p> <p>The <b>contractor</b> acknowledges that the principal objective of his appointment is his expert knowledge in the execution of the scope of work of this <b>agreement</b>. The <b>contractor</b> shall therefore be solely responsible for all aspects of the construction of the <b>works</b> including but not limited to quality, safety, management, resourcing, programming and coordination of sequencing of work all as required for the type of project described within the time limits and quality standards specified.</p> <p>F:..... T:..... V:.....</p> <p><b><u>MODE OF PROCEDURE (C15)</u></b></p> <p>Notwithstanding anything to the contrary contained herein the <b>principal agent</b> at all times reserves the right to direct the order in which the various parts of the <b>works</b> are to be executed. The <b>contractor</b> shall give priority to any individual section or portion of the <b>works</b> that, in the opinion of the <b>principal agent</b>, requires to be expedited.</p>	Item		
113	<p>The <b>contractor</b> shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers or suppliers instructions after consultation with the manufacturer authorized representative.</p> <p>F:..... T:..... V:.....</p>	Item		
114	<p>The <b>contractor</b> acknowledges that the principal objective of his appointment is his expert knowledge in the execution of the scope of work of this <b>agreement</b>. The <b>contractor</b> shall therefore be solely responsible for all aspects of the construction of the <b>works</b> including but not limited to quality, safety, management, resourcing, programming and coordination of sequencing of work all as required for the type of project described within the time limits and quality standards specified.</p> <p>F:..... T:..... V:.....</p>	Item		
115	<p>Notwithstanding anything to the contrary contained herein the <b>principal agent</b> at all times reserves the right to direct the order in which the various parts of the <b>works</b> are to be executed. The <b>contractor</b> shall give priority to any individual section or portion of the <b>works</b> that, in the opinion of the <b>principal agent</b>, requires to be expedited.</p>			
	Carried to Collection		R	
	<p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

116	<p>Should the contractor and/or principal agent be of the opinion that such instruction warrants a revision to the programme, then the provisions of clause B4.2 hereof shall apply.</p> <p>Should it appear, in the <b>principal agents</b> opinion, that work in any area is not being executed in accordance with the requirements of the programme, the <b>contractor</b> shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the <b>principal agent</b>.</p> <p>F:..... T:..... V:.....</p> <p><b><u>SAFETY MANAGEMENT PROGRAMME (C16)</u></b></p> <p>The <b>contractor</b> shall:</p> <p>Provide the necessary skilled and competent management to supervise and monitor compliance with the requirement of the</p> <ul style="list-style-type: none"> <li>• Occupational Health and Safety Act of 1993 Construction Regulations.</li> <li>• Occupational Health and Safety Act and Construction Regulations (2014).</li> <li>• Asbestos regulations 2001</li> </ul> <p>Comply with the Health and Safety Specification of the <b>works</b>.</p> <p>Prepare and agree with the Health and Safety Consultant the Health and Safety Plans for the <b>works</b>.</p> <p>Cooperate with the Health and Safety Consultant in all respects.</p> <p>Manage the compliance of all <b>subcontractors</b> with the Regulations, and with the Health and Safety Plan and Specification.</p> <p>Further note that there is a OHS bill attached in section 6</p> <p>F:..... T:..... V:.....</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 1 Bill No 1 - Preliminaries <b>PROVISIONAL BILLS OF QUANTITIES</b></p>	Item		
			R	

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Section No. 1			
Bill No. 1			
Bill No 1 - Preliminaries			
<b><u>COLLECTION</u></b>			
	<b>Page No</b>		<b>Amount</b>
Total Brought Forward from Page No.	1		
Total Brought Forward from Page No.	2		
Total Brought Forward from Page No.	3		
Total Brought Forward from Page No.	4		
Total Brought Forward from Page No.	5		
Total Brought Forward from Page No.	6		
Total Brought Forward from Page No.	7		
Total Brought Forward from Page No.	8		
Total Brought Forward from Page No.	9		
Total Brought Forward from Page No.	10		
Total Brought Forward from Page No.	11		
Total Brought Forward from Page No.	12		
Total Brought Forward from Page No.	13		
Total Brought Forward from Page No.	14		
Total Brought Forward from Page No.	15		
Total Brought Forward from Page No.	16		
Total Brought Forward from Page No.	17		
Total Brought Forward from Page No.	18		
Total Brought Forward from Page No.	19		
Total Brought Forward from Page No.	20		

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Section No. 1			
Bill No. 1			
Bill No 1 - Preliminaries			
<b><u>COLLECTION</u></b>			
	<b>Page No</b>		<b>Amount</b>
<b>Brought Forward</b>		R	
Total Brought Forward from Page No.	21		
Total Brought Forward from Page No.	22		
Total Brought Forward from Page No.	23		
Total Brought Forward from Page No.	24		
Total Brought Forward from Page No.	25		
Total Brought Forward from Page No.	26		
Total Brought Forward from Page No.	27		
Total Brought Forward from Page No.	28		
Total Brought Forward from Page No.	29		
Total Brought Forward from Page No.	30		
Total Brought Forward from Page No.	31		
Total Brought Forward from Page No.	32		
Total Brought Forward from Page No.	33		
Total Brought Forward from Page No.	34		
Total Brought Forward from Page No.	35		
Total Brought Forward from Page No.	36		
Total Brought Forward from Page No.	37		
Total Brought Forward from Page No.	38		
Total Brought Forward from Page No.	39		
<b>Carried Forward</b>		R	
Section No. 1			
Bill No 1 - Preliminaries			
<b>PROVISIONAL BILLS OF QUANTITIES</b>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS</u></b></p> <p><b><u>(WORK GROUP 102)</u></b></p> <p><b><u>PREAMBLES</u></b>For preambles refer to  <b><u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></b></p>			
	<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Allow for the following requirements to the satisfaction of the Principal Agent</u></b></p> <p><b><u>Site visit</u></b></p> <p>Tenderers are to visit and view the site and existng structures to be demolished to thoroughly acquaint themselves with the nature of demolitions, the nature and extent of the work and the conditions under which the works are to be done</p> <p><b><u>Existing structures</u></b></p> <p>In taking down and removing existing work, the utmost care shall be observed to prevent any structural or other damage to the adjoining buildings and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during the alteration work. Any damage, deforming and/or defaced to the structure and/or building as well as the rectification of same will be for the Contracor's account.</p>			
	<b>Carried to Collection</b>		R	
	<p>Section No. 2 Bill No 1 - Alterations <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p><b><u>Existing Services</u></b></p> <p>Special care shall be exercised during the progress of the work to ensure that electrical installation, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Representative Agent if any disconnection or alterations become necessary. Any damage to such services shall be to the contractors account</p> <p><b><u>Dust and noise</u></b></p> <p>The Contractor is to take all necessary precautions, to minimise noise levels and frequently watering of the works to minimise any nuisance from dust and to ensure the least interference with the general routine of the occupants and operation of the premises including all necessary labour, materials, etc. for so doing and</p> <p><b><u>Disposal of debris</u></b></p> <p>The Contractor shall be responsible for the regular cleaning away all rubble, debris, rubbish, unusable materials, etc. as the work proceeds and for leaving the works in a clean and satisfactory state upon completion suitable for use and occupation, including all necessary labour, materials or plant, etc. for so doing</p> <p><b><u>Old materials</u></b></p> <p>Old materials from the alterations, except where described shall remain the property of the client.</p> <p><b><u>Old materials to be carted away</u></b></p> <p>Old materials from the alterations, except where described to be re-used or handed over, as well as all rubbish, etc. must regularly be carted away from site and not be allowed to accumulate on or around the site.</p>			
	<p style="text-align: right;"><b>Carried to Collection</b></p>		R	
	<p>Section No. 2 Bill No 1 - Alterations <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p><b><u>Handing over of materials</u></b></p> <p>Where certain materials or articles from demolitions or alterations are described as to be handed over by the Contractor to the Representative/ Agent, such materials or articles shall be properly stored by the Contractor until handing over thereof. The Contractor must obtain an official receipt listing materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Client for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor.</p> <p><b><u>Temporary support to openings through existing walls</u></b></p> <p>Making openings, altering openings in existing walls and removing lintols above existing openings shall be done with the utmost care to prevent any structural damage. All necessary supports, propping, shoring, needling strutting, turning pieces, etc. to wall openings is deemed to be included in the Contractor's rates.</p> <p><b><u>Electrical And Mechanical</u></b></p> <p>Where items include for taking down electrical and mechanical fittings the disconnection and making safe electrically is deemed to be included. Contractor to note items with barcodes (asset numbers) cannot be removed without prior arrangement with authorities</p> <p>NOTE:-</p> <p>Contractor to note that items with barcodes, cannot be dosposed or removed from site prior to arranging with Hospital Authorities</p>			
	<p style="text-align: right;"><b>Carried to Collection</b></p>		R	
	<p>Section No. 2 Bill No 1 - Alterations <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>DELAYS/STANDING TIME</u></b>					
1	Allow for delays (standing time) in arranging with the User-Client to relocate and give access to newly allocated portion of the works.		Item		
<b><u>TEMPORARY BARRIERS, SCREENS, ETC</u></b>					
<b><u>Temporary barriers, screens, etc including removal on completion (LI)</u></b>					
2	Supply, erect, alter as necessary, maintain all necessary suitable hoardings approximately 2,7m high complete with temporary tarpaulins, fencing, safety screens, barriers, guard railing, access gates, etc. as necessary during the progress of the works and the protection of the occupants of the premises, including all necessary labour, materials, etc for so doing and remove same upon completion when so directed.	m	2 600.00		
<b><u>CLEAN EXISTING WORK</u></b>					
<b><u>Clean and wash wall, floors etc</u></b>					
3	Vinyl floors	m2	220		
4	Facebrick wall	m2	736		
5	Window sill	m2	33		
<b><u>Wash surface with galvanised cleaner, rinse thoroughly with clean water, apply single coat HydroEtch/Galvanised iron primer then apply two coats Roof/Nu roof cool/RoofGuard(E/M)</u></b>					
6	On roofs	m2	1 950		
<b><u>REMOVAL OF EXISTING WORK (LI)</u></b>					
<b><u>NOTE: All materials from demolitions/excavations marked from carting away shall be cart at designated Municipal dumping site and proof of dumping to be submitted to the Safety / Enviromental officer</u></b>					
<b>Carried to Collection</b>				R	
Section No. 2 Bill No 1 - Alterations <b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<b><u>Taking up and removing vinyl tiles/sheeting floor coverings, ceramic tiles, concrete tiles, carpeting, etc (LI)</u></b>				
7	Ceramic floor tiles of all sizes including preparing floor to receive new floor finish (elsewhere measured)	m2	192		
8	Granolithic including preparing screed for new screed (elsewhere measured)	m2	25		
9	Vinyl tile/sheeting floor covering/skirting including preparing screed for new floor covering (elsewhere)	m2	2 704		
	<b><u>Hacking out the existing bumper rails and cart away all materials arising (LI), prepare wall for paint and new bumper rails (elsewhere measured)</u></b>				
10	Bumper rails	m	812		
	<b><u>Hacking out the existing splashback tiles and cart away all materials arising (LI)</u></b>				
11	On walls	m2	345		
	<b><u>Hacking out the existing plaster and cart away all materials arising (LI)</u></b>				
12	On walls internally/externally	m2	340		
	<b><u>Breaking down and removing brickwork etc. and making good of surfaces where removed.</u></b>				
13	Half brick wall	m2	25		
14	One brick wall	m2	60		
	<b><u>Breaking down and removing Drywall partition etc. and making good of surfaces where removed.</u></b>				
15	Drywall partition	m2	111		
	<b>Carried to Collection</b>			R	
	Section No. 2				
	Bill No 1 - Alterations				
	<b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<b><u>Removing paint and primer to expose substrate and prepare surface to receive primer and paint (elsewhere measured)</u></b>				
16	On steel cage walls	m2	496		
17	Internal walls	m2	1 522		
18	External walls	m2	433		
19	On window and door frames	m2	68		
20	On internal window sills	m2	25		
21	On external window sills	m2	15		
	<b><u>Removing paint to expose substrate and prepare surface to receive skimming and paint (elsewhere measured)</u></b>				
22	On ceiling	m2	1 806		
23	Concrete slab sofit	m2	1 003		
	<b><u>Breaking up and removing concrete (LI)</u></b>				
24	Surface beds, aprons, ramps including screeds etc	m3	25		
	<b><u>Taking out and removing doors, windows, etc from brick wall to be demolished and making good of surfaces where removed.</u></b>				
25	Single doorframe and door.	No	123		
26	Double doorframe and door.	No	24		
27	Window size 1511 x 1545mm	No	4		
28	Window size 660 x 1075mm	No	6		
29	Window size 1500 x 645mm high	No	4		
30	Window size 645 x 645mm high	No	6		
	<b>Carried to Collection</b>			R	
	Section No. 2				
	Bill No 1 - Alterations				
	<b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>Taking out and removing aluminium/steel doors, windows, etc from brick wall to be demolished and making good of surfaces where removed.</u></b>				
31	Single door	No	18	
32	Double door.	No	8	
<b><u>Taking out and removing glass from door/window frame</u></b>				
33	Windows	m2	89	
<b><u>Taking out and removing brick built in cupboards,shelves, kitchen units. tops, etc (LI)</u></b>				
34	Broom cupboard	No	1	
35	5000mm Worktop and associated fasteners/ adhesives	No	15	
36	1900mm Shelving, joinery, worktop etc and associated fixtures, anchors, fasteners, miscellaneous items with it.	No	15	
37	1300mm Adjustable shelving and associated brackets	No	4	
38	1100mm Stainless steel kitchen worktop and all fixtures, anchors, fasteners etc associated with it	No	2	
39	1200mm Cupboards comprising CAFS frame and timber doors, timber shelving and make good surfaces	No	10	
40	Counter table 3100mm long x 600mm wide x 880mm high	No	15	
41	Sink cupboard 1500mm long x 600mm wide x 880mm high	No	8	
<b><u>Taking out and removing sanitary fittings and making good of surfaces where removed.</u></b>				
42	Single bowl sink including fittings, pipes, etc.	No	13	
43	Taps/mixers	No	5	
<b>Carried to Collection</b>			R	
Section No. 2 Bill No 1 - Alterations <b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

44	Carefully take out and remove Urinal including fittings, pipes, etc.	No	4		
45	Carefully take out and remove WC including fittings, pipes, etc.	No	16		
46	Carefully take out and remove WHB including fittings, pipes, etc.	No	38		
47	Carefully take out and remove bathtub including fittings, pipes, etc.	No	3		
48	Carefully take out and remove shower including fittings, pipes, etc.	No	10		
49	Carefully take out and remove sluicehopper including fittings, pipes, etc.	No	2		
50	Carefully take out and remove bedpan including fittings, pipes, etc.	No	3		
51	Carefully take out and remove cleaner drip sink including fittings, pipes, etc.	No	2		
	<b><u>Taking out and removing ironmongery fittings and making good of surfaces where removed.</u></b>				
52	Towel rail	No	23		
	<b><u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc as per Building Regulation and making good of surfaces where removed.</u></b>				
53	Asbestos eaves soffit board and associated fasteners, Dispose of in accordance with the occupational Health and Safety Act	m	1 106		
54	Asbestos fascia board and all associated fasteners. Dispose of in accordance with the occupational Health and Safety Act	m	563		
55	Asbestos roof sheeting ,rafters and timber battens below, Dispose of in accordance with the occupational Health and Safety Act.	m2	1 840		
	<b>Carried to Collection</b>			R	
	Section No. 2 Bill No 1 - Alterations <b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

56	Remove asbestos roof sheets and rafters. Dispose of in accordance with the Occupational Health and Safety Act.	m2	182		
57	Corrugated iron roofing sheets	m2	462		
58	Ceiling boards including brandering etc.	m2	363		
59	Gypsum plasterboard ceiling and suspension system , including ceiling mounted items etc	m2	400		
60	Asbestos ceiling and suspension system,ceiling mouted items ETC. dispose in accordance with the Health and Safety Act	m2	399		
<b><u>Taking out and removing rainwater goods (LI)</u></b>					
61	150 x 100mm steel gutters	m	247		
62	100 x 100mm Downpipes from brickwork	m	168		
<b><u>Taking out and removing fascias and barge boards (LI)</u></b>					
63	300 x 12mm thick fascia boards	m	220		
<b><u>Taking out and removing Fire fighting equipment (LI)</u></b>					
64	Fire extinguishers	No	20		
65	Fire hose	No	5		
<b><u>Miscellaneous Items</u></b>					
66	Provide the sum of R800 000.00 (Eight Hundred Thousand Rands Only) for miscellaneous items			SUM	
<b>Carried to Collection</b>				R	
Section No. 2 Bill No 1 - Alterations <b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Section No. 2			
Bill No. 1			
Bill No 1 - Alterations			
<b><u>COLLECTION</u></b>			
	<b>Page No</b>		<b>Amount</b>
Total Brought Forward from Page No.	45		
Total Brought Forward from Page No.	46		
Total Brought Forward from Page No.	47		
Total Brought Forward from Page No.	48		
Total Brought Forward from Page No.	49		
Total Brought Forward from Page No.	50		
Total Brought Forward from Page No.	51		
Total Brought Forward from Page No.	52		
Total Brought Forward from Page No.	53		

**Carried Forward to Summary of Section No. 2**

R

Section No. 2

Bill No 1 - Alterations

**PROVISIONAL BILLS OF QUANTITIES**

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No	Quantity	Rate	Amount
<p><b><u>BILL NO. 2</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><b><u>(WORK GROUP 104)</u></b></p> <p>PREAMBLESFor preambles refer to "Department of Public Works: Specification of Materials and Method to be used - PW371"</p>			
<p><b><u>NOTE</u></b></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Filling material (General)</u></b></p> <p>It will be, at all times, required from the Contractor to apply and execute strict quality control on all filling material used</p> <p>Samples of potential fill materials obtained from excavations, trench excavations, etc. are to be submitted to and approved by the Engineer prior the re-use thereof as "filling"</p> <p>All filling obtained from a commercial source should comply to a minimum G6 standard and to be approved by Engineer before haulage to site.</p> <p>Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported.</p> <p>Filling in general shall be compacted to the prescribed percentage Mod AASHTO density</p>			
<p style="text-align: right;"><b>Carried to Collection</b></p>		R	
<p>Section No. 2</p> <p>Bill No 2 - Earthworks</p> <p><b>PROVISIONAL BILLS OF QUANTITIES</b></p>			



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p><b><u>Filling to form earth mattresses, in sub-layers, under floors, etc</u></b></p> <p>All filling in layers under surface beds, in sub-layers, to form earth mattresses, etc. shall be done with materials specified and according to methods prescribed by the SABS 1200ME Sub-base Specification.</p> <p>The aforesaid specification was drawn up to cover activities normally encountered on civil engineering work, which is equally applicable on the filling details and requirements prescribed for this project</p> <p>The said specification, although not issued with, shall be regarded to form part of these Bills of Quantities. The Contractor shall obtain a copy of the said specification from the South African Bureau of Standards and be kept on site at all times</p> <p><b><u>CBR and Indicator tests</u></b></p> <p>Density tests for monitoring filling shall be done at the minimum prescribed frequencies per each 150mm thick layer of filling placed.</p> <p>The Contractor is to note that all necessary tests (i.e CBR and indicator tests, etc) are to be conducted for all filling material, whether obtained from the excavations or to be imported from an approved commercial source.</p> <p>Results of these tests are to be submitted to and approved by Engineer prior commencement of any placement thereof and/or filling done therewith</p>			
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2 Bill No 2 - Earthworks <b>PROVISIONAL BILLS OF QUANTITIES</b></p>		R	

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKOGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p><b><u>Density test</u></b></p> <p>It will be required from the Contractor to execute density tests for monitoring filling at the following minimum frequencies per each filling layer placed:</p> <p><b>- Filling under surface beds</b> 1 Test per 25m<sup>2</sup> plan area per each 150mm thick layer</p> <p><b>- Filling behind retaining walls:</b> 1 Test per each 10m length of retaining wall</p> <p>Results of density test executed are to be submitted to and approval obtained from the Engineer prior commencement of any subsequent fill layers and/or other work</p> <p><b><u>Carting away of excessive and/or unsuitable excavated material</u></b></p> <p>Descriptions for "carting away excessive or unsuitable excavated material from site" shall be deemed to include the loading and hauling of excessive or unsuitable excavated material to a suitable dumping site, which has to be located by the Contractor, off the hospital premises</p> <p>The location of the intended dumping site will be subjected to the prior written approval of the local authority (Municipality)</p> <p>All materials for excavations marked for caring away shall be cart at Municipal designated dumping site and proof of dumping to be submitted to the Safety / Enviromental officer</p> <p>The contractor will also be liable to remove upon completion, rehabilitate all those areas of the dumping site used for dumping/spoiling by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the Engineer/Principal Agent</p> <p>Tendered rates must make provision for the above-mentioned as no additional claims in this regard will afterwards be entertained</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2 Bill No 2 - Earthworks <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			
			R	

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKOGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<p><b><u>NOTE: All materials from excavations marked from carting away shall be cart at Municipal designated dumping site and proof of dumping to be submitted to the Safety / Enviromental officer</u></b></p> <p><b><u>EXCAVATIONS, FILLING, ETC,</u></b></p> <p><b><u>Excavate in earth below natural ground level, reduced or made up ground level, not exceeding 2m deep, for:</u></b></p>				
1	Trenches	m3	59	
2	Holes	m3	28	
<p><b><u>Extra over trench and hole excavations in earth for excavation in</u></b></p>				
3	Soft rock	m3	9	
4	Hard rock	m3	4	
<p><b><u>Extra over all excavations for carting away</u></b></p>				
5	Surplus or unwanted excavated material to stock piles on site or to a dumping site to be located by the contractor	m3	22	
<p><b><u>Risk of collapse of excavations</u></b></p>				
6	Sides of trench excavations not exceeding 1,5m deep	m2	60	
<p><b><u>Keeping excavations free of water</u></b></p>				
7	Allow for bailing, pumping or otherwise keeping all excavations free from water		Item	
<p><b><u>Earth filling obtained from the excavations compacted to 93% Mod AASHTO density</u></b></p>				
8	In backfilling to trenches, holes, etc	m3	22	
<p style="text-align: right;"><b>Carried to Collection</b></p>				R
<p>Section No. 2 Bill No 2 - Earthworks <b>PROVISIONAL BILLS OF QUANTITIES</b></p>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKOGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

9	<p><b><u>Gravel base stabilized C3 material or approved earth filling supplied by the contractor, spread, levelled, watered, and compacted to 97% Mod AASHTO density in layers not exceeding 150mm thick (Rate/m3 shall be for compacted material and not loose material)</u></b></p> <p>Under floors, steps, pavings, etc</p>	m3	15	
10	<p><b><u>Gravel subbase stabilized C4 material or approved earth filling supplied by the contractor, spread, levelled, watered, and compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick (Rate/m3 shall be for compacted material and not loose material)</u></b></p> <p>Under floors, steps, pavings, etc</p>	m3	15	
11	<p><b><u>Sand bed</u></b></p> <p>50mm Thick dry, clean, washed riversand layer evenly spread over filling (elsewhere), levelled, watered and rammed to receive waterproofing membrane (elsewhere) under solid floors</p>	m2	7	
12	<p><b><u>Compaction of surfaces</u></b></p> <p>Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density</p>	m2	11	
13	<p><b><u>Prescribed density tests on filling (no payment for compaction shall be allowed until compaction results are produced, only results which have passed the test shall be paid for)</u></b></p> <p>Modified AASHTO Density test</p>	No	25	
<p><b><u>SOIL POISONING</u></b></p> <p><b><u>Approved insecticide solutions shall be mixed on site in the presence of clerk of works/engineer/principal agent in strict accordance with the manufacturers/suppliers specifications</u></b></p>				<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Bill No 2 - Earthworks <b>PROVISIONAL BILLS OF QUANTITIES</b></p>

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Section No. 2				
Bill No. 2				
Bill No 2 - Earthworks				
<b><u>COLLECTION</u></b>				
	<b>Page No</b>		<b>Amount</b>	
Total Brought Forward from Page No.	55			
Total Brought Forward from Page No.	56			
Total Brought Forward from Page No.	57			
Total Brought Forward from Page No.	58			
Total Brought Forward from Page No.	59			
Total Brought Forward from Page No.	60			

**Carried Forward to Summary of Section No. 2**

Section No. 2  
Bill No 2 - Earthworks  
**PROVISIONAL BILLS OF QUANTITIES**

R

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount	
	<p><b><u>BILL NO. 3</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p> <p><b><u>(WORK GROUP 110)</u></b></p> <p><b><u>PREAMBLES</u></b>For preambles refer to  <b><u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></b></p> <p><b><u>NOTE</u></b></p> <p>All prices/rates to be net, excluding Value Added Tax</p>				
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2  Bill No 3 - Concrete, formwork and reinforcement  <b>PROVISIONAL BILLS OF QUANTITIES</b></p>		R		

	<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Concrete test cubes</u></b></p> <p>Descriptions and tendered rates for concrete strength test cubes, as required under clause 7, "Tests" of SABS 1200 G, shall be deemed to cater for all the cost of providing cube moulds necessary for the purpose, making, storing and sending thereof to an approved laboratory for testing, paying all charges in connection therewith and for submitting test results to Principal Agent</p> <p>All concrete strength test cubes, each 150 x 150 x 150mm shall be prepared in a set of three</p> <p>It will be required from the contractor to prepare concrete strength test cube sets for each section (radiology, dental etc) at the following minimum frequencies:</p> <ul style="list-style-type: none"> <li>- One set of three cubes for every 20m<sup>3</sup>, or part thereof, of concrete cast per day,</li> <li style="text-align: center;">or</li> <li>- One set of three cubes for each batch of concrete cast per event as directed by the Clerk Of Works.</li> </ul> <p>All concrete strength test cubes shall be done on site regardless of ready mix and shall be labelled and the identity thereof (ie. date, concrete strength type, position where batch was cast relative to the area and section identity) shall be properly recorded for future reference.</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2 Bill No 3 - Concrete, formwork and reinforcement <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			
			R	



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p><b><u>Formwork</u></b></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 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> <p>Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the Principal Agent for design reasons. Formwork necessitated by irregularities 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 which is made for in "Earthworks"</p>			
1	<p><b><u>Test Blocks (Provisional)</u></b></p> <p>Making of 150 x 150 x 150mm concrete strength test cube in sets of three, label and send to an approved laboratory for testing, including paying all charges and submit report to the Principal agent. (only successful tests will be paid for)</p> <p style="text-align: right;">Sets</p>	50		
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2 Bill No 3 - Concrete, formwork and reinforcement <b>PROVISIONAL BILLS OF QUANTITIES</b></p>		R	

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>SCREEDS / FINISHED CONCRETE</u></b>				
<b><u>3:1 Cement plaster screeds steel trowelled on concrete</u></b>				
2	30mm Thick on concrete floors to receive vinyl sheeting/tiles	m2	586	
3	30mm Thick on concrete floors to receive tiles	m2	89	
<b><u>MASS CONCRETE</u></b>				
<b><u>Unreinforced concrete vertically to foundation walls</u></b>				
<b><u>25MPa/19mm concrete</u></b>				
4	Cast against excavated surfaces as encasement	m3	8	
5	Cast against excavated surfaces	m3	7	
6	180 x 70mm channel	m3	8	
7	460 x 70mm flat top concrete coping with dpc under	m3	4	
8	In aprons cast in situ	m3	158	
<b><u>30MPa/19mm concrete</u></b>				
9	100 x 80mm Cast In-Situ concrete apron	m3	278	
<b><u>PRE-CAST CONCRETE</u></b>				
<b><u>Precast concrete sill</u></b>				
10	1500mm long window sill	No	6	
11	660mm long window sill	No	3	
<b><u>Precast concrete lintel</u></b>				
12	Lintel	m	55	
<b>Carried to Collection</b>			R	
Section No. 2 Bill No 3 - Concrete, formwork and reinforcement <b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

13	<p><b><u>Concrete kerbing</u></b></p> <p>Kerb (SABS 927 fig 3) 150 x 300mm high with 260 x 260 x 50mm unreinforced concrete hauching at the back of each joint including excavation, backfilling, etc.</p> <p style="text-align: right;">m</p>	54.00		
	<b>Carried to Collection</b>		R	
	<p>Section No. 2 Bill No 3 - Concrete, formwork and reinforcement <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>MOVEMENT JOINTS ETC</u></b>					
<b><u>Isolation joints</u></b>					
21	10mm isolation joints with polystyrene inbetween and poly sealant to structural structural engineers specification	m	165		
<b><u>Movement joints</u></b>					
22	Movement joint formed of 15mm bitumen impregnated softboard not exceeding 300mm high built in vertically between brickwork and concrete and sealed with polysulphide sealing compound externally	m	17		
<b><u>Expansion joints</u></b>					
23	Movement joint not exceeding 300mm high formed of 20mm polystyrene placed vertically in position between concrete surfaces including approved sealant	m	12		
<b><u>Saw cut joints including polysulphide sealing compound</u></b>					
24	6 x 10mm Saw cut joints in top of concrete	m	10		
25	6 x 40mm SAW-CUT clean out and seal with approved sealant	m	24		
<b>Carried to Collection</b>				R	
Section No. 2					
Bill No 3 - Concrete, formwork and reinforcement					
<b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p><b><u>REINFORCEMENT (PROVISIONAL)</u></b></p> <p><b><u>(WORK GROUP 114)</u></b></p> <p><b><u>Fabric reinforcement</u></b></p> <p>26 Type Ref 395 fabric reinforcement in concrete surface beds, slabs, etc m2</p>				
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2 Bill No 3 - Concrete, formwork and reinforcement <b>PROVISIONAL BILLS OF QUANTITIES</b></p>		R		

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Section No. 2				
Bill No. 3				
Bill No 3 - Concrete, formwork and reinforcement				
<b><u>COLLECTION</u></b>				
	<b>Page No</b>		<b>Amount</b>	
Total Brought Forward from Page No.	62			
Total Brought Forward from Page No.	63			
Total Brought Forward from Page No.	64			
Total Brought Forward from Page No.	65			
Total Brought Forward from Page No.	66			
Total Brought Forward from Page No.	67			
Total Brought Forward from Page No.	68			
Total Brought Forward from Page No.	69			
Total Brought Forward from Page No.	70			

**Carried Forward to Summary of Section No. 2**

R

Section No. 2

Bill No 3 - Concrete, formwork and reinforcement

**PROVISIONAL BILLS OF QUANTITIES**



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKOGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO. 4</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>(WORK GROUP 118)</u></b></p> <p><b><u>PREAMBLES</u></b>For preambles refer to  <b><u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></b></p> <p><b><u>NOTE</u></b></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Wall ties</u></b></p> <p>Descriptions and rates for cavity walls specified to include wire ties shall, unless otherwise specified, be deemed to include at least five metal wire ties, evenly spaced, per square metre brickwork. Metal wall ties shall:</p> <ul style="list-style-type: none"> <li>- Comply with SABS 28 and of the butterfly or the modified PWD type</li> <li>- Of suitable lengths to ensure that ends are built at least 75mm deep into brickwork.</li> </ul> <p><b><u>Face bricks</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour. Contractor to verify size uniformity prior to laying</p> <p><b><u>Pointing</u></b></p> <p>Description of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2  Bill No 4 - Masonry  <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			
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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<b><u>SUNDRIES</u></b>				
	<b><u>Brick reinforcement in substructure (Provisional)</u></b>				
9	Brick reinforcement 75mm wide in foundation built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	5		
10	Brick reinforcement 150mm wide in foundation built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	13		
	<b><u>Brick reinforcement in superstructure</u></b>				
11	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	21		
12	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	280		
	<b><u>Prestressed fabricated lintels</u></b>				
13	100mm x 70mm Lintol not exceeding 3m long, hoisted into position and laid over opening in brick wall with ends bedded in class II mortar	m	5		
	<b><u>Turning pieces</u></b>				
14	115mm Wide turning pieces to lintels etc	m	10		
15	230mm Wide turning pieces to lintels etc	m	10		
	<b><u>Movement joints</u></b>				
16	Movement joint formed of 20mm polystyrene built in vertically between brickwork	m2	12		
	<b><u>Closing cavities</u></b>				
17	Closing 50mm cavity of hollow wall one course high, horizontally with mortar in foundations ( <u>Provisional</u> )	m	18		
	<b>Carried to Collection</b>			R	
	Section No. 2 Bill No 4 - Masonry <b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

18	<p><b><u>Hoop iron</u></b></p> <p>25 x 1mm thick Galvanised hoop iron 300mm Long shot pinned to concrete beams and built into brick work</p> <p style="text-align: right;">No</p> <p style="text-align: right;">15</p> <p style="text-align: right;">R</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 4 - Masonry <b>PROVISIONAL BILLS OF QUANTITIES</b></p>				
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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>FACE BRICKWORK</u></b>				
<b><u>Equal and approved by the Principal Agent facebricks to match existing (PC R6500/1000 bricks including delivery to site but excluding VAT) pointed with recessed horizontal and vertical joints</u></b>				
19	Extra over brickwork for facing and pointing in foundation (Provisional)	m2	33	
20	Extra over brickwork for face brickwork	m2	60	
21	Extra over brick columns	m2	25	
22	Half brickwall	m2	27	
23	One brickwall	m2	1 043	
<b><u>Brick-on-edge header course copings, sills, etc of face bricks pointed with recessed joints on all exposed faces</u></b>				
24	Facebrick on edge exterior window sill	m	7	
25	Coping on top of one brick wall	m	19	
26	175mm Wide sill set sloping and slightly projecting	m	10	
27	Fair raking cutting	m	12	
28	Fair circular cutting for pipes not exceeding 100mm diameter	No	20	
29	Fair circular cutting for pipes exceeding 100mm and not exceeding 200mm diameter	No	22	
<b><u>FIBRE-CEMENT WINDOW SILLS</u></b>				
<b><u>Fibre cement or equal and approved by the Principal Agent sills in single lengths bedded in class I mortar including metal fixing lugs etc</u></b>				
30	15 x 150mm wide Everite cement fibre window sills	m	20	
<b>Carried to Collection</b>			R	
Section No. 2 Bill No 4 - Masonry <b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

31	<p><b><u>15 x 150mm wide Nutech everite cement fibre window sills fixed with fixing lugs as per manufacturers specifications.</u></b></p> <p><b><u>REPAIR</u></b></p> <p><b><u>Repairing of wall cracks to engineers specification</u></b></p>	m	34			
32	Walls	m	574			
Carried to Collection						R
Section No. 2 Bill No 4 - Masonry <b>PROVISIONAL BILLS OF QUANTITIES</b>						

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Section No. 2			
Bill No. 4			
Bill No 4 - Masonry			
<b><u>COLLECTION</u></b>			
	<b>Page No</b>		<b>Amount</b>
Total Brought Forward from Page No.	72		
Total Brought Forward from Page No.	73		
Total Brought Forward from Page No.	74		
Total Brought Forward from Page No.	75		
Total Brought Forward from Page No.	76		
Total Brought Forward from Page No.	77		
Total Brought Forward from Page No.	78		
<b>Carried Forward to Summary of Section No. 2</b>		R	
Section No. 2			
Bill No 4 - Masonry			
<b>PROVISIONAL BILLS OF QUANTITIES</b>			



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount	
	<b><u>BILL NO. 5</u></b>  <b><u>WATERPROOFING</u></b>  <b><u>(WORK GROUP 120)</u></b>  <b><u>PREAMBLES</u></b> For preambles refer to <b><u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></b>  <b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>  <b><u>SUPPLEMENTARY PREAMBLES</u></b>  Waterproofing to flat concrete roofs shall be installed by an approved firm of "Specialist Contractor" under a " <b><u>ten year guarantee</u></b> " all in accordance with the materials supplied and methods employed by Manufacturers				
	<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>  <b><u>One layer of type 375 micron Consol Plastics Brikgrip DPC or similar and approved by the Principal Agent embossed damp proof course</u></b>  1 In walls m2 194  <b><u>One layer of 250 micron USB green medium density waterproof sheeting sealed at laps with pressure sensitive tape all in accordance with the Manufacturer's instruction</u></b>  2 Medium density damp-proof membrane laid loose on top of sand bed (elsewhere) under solid floors with pressure sensitive tape jointing in building m2 120				
	<b>Carried to Collection</b>			R	
	Section No. 2 Bill No 5 - Waterproofing <b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u></b>  <b><u>Vapour barrier to comply with SABS 52 immediately below roof sheet. All joints to be lapped by 1000mm and be sealed to manufacturers specifications or similar and approved by the Principal Agent</u></b>					
3	On roofs	m2	355		
4	On screeded flat floors to slight fall to outlet not exceeding 10 degrees from the horizontal	m2	5		
5	On bottoms and sides of gutters	m2	6		
6	Tops and sides of brick or concrete not exceeding 300mm girth	m	6		
<b><u>JOINT SEALANTS ETC</u></b>  <b><u>Silicone sealing compound including backing cord, bond breaker, primer, etc</u></b>					
7	Between timber fittings and plastered walls	m	190		
8	Between sanitary fittings and wall tiles	m	364		
<b><u>Natural grey polysulphide sealing compound</u></b>					
9	20mm Deep in Expansion joints	m	65		
<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2  Bill No 5 - Waterproofing  <b>PROVISIONAL BILLS OF QUANTITIES</b></p>				R	

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount	
	<p><b><u>BILL NO. 6</u></b></p> <p><b><u>ROOF COVERING</u></b></p> <p><b><u>(WORK GROUP 124)</u></b></p> <p><b><u>PREAMBLES</u></b>For preambles refer to  <b><u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></b></p> <p><b><u>NOTE</u></b></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b>General</b></p> <p>All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched</p> <p><b>Sizes</b></p> <p>All items are measured net unless otherwise described</p> <p><b>Flashing, trimming plates, etc</b></p> <p>Prices to include for all cutting and waste and relevant fixing material, unless otherwise described</p> <p>All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet roof covering where applicable</p>				
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2  Bill No 6 - Roof Covering  <b>PROVISIONAL BILLS OF QUANTITIES</b></p>		R		

<b><u>ROOF COVERINGS</u></b>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>"IBR" or similar and approved by the Principal Agent</u></b>				
IBR products to be all galvanised and installed strictly to manufacturer's specifications but colours to be to the Architect's approval				
<b><u>Fix 0.58mm Industrially quoted IBR roof sheeting consisting of 75 x 50mm purlins, specified rafters including all necessary accessories all to engineers specifications. Roof colour to finishes schedule.</u></b>				
1	Roof covering	m2	604	
2	Roof covering with pitch 22.5 deg	m2	85	
<b><u>"CHROMADEK" or similar and approved by the Principal Agent</u></b>				
CHROMADEK products to be all galvanised and installed strictly to manufacturer's specifications but colours to be to the Architect's approval				
<b><u>Fix 0.8mm Industrially quoted CHROMADEK roof sheeting consisting of 75 x 50mm purlins, specified rafters including all necessary accessories all to engineers specifications. Roof colour to finishes schedule.</u></b>				
3	Roof covering with 5deg pitch	m2	200	
<b><u>Fix industrailly coated on both sides Brownbuilt Z200 interlocking concealed-fix Brownbuilt profile Chromadek roofing sheets fixed on 76 x 50mm h/w timber purlins as per manufacturers specifications. Colour to Architects specs</u></b>				
4	Roof coverings	m2	81	
<b><u>INSULATION, ETC</u></b>				
<b>Carried to Collection</b>				
Section No. 2 Bill No 6 - Roof Covering <b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

5	<p><b><u>Roof insulation "Isover Corning Factorylite flexible, non-combustible lightweight industrial fibreglass insulation material (nominal density 12kg per m3), with reinforced kraft aluminium foil faced finish laid taut over purlins at centres and tied down top and bottom after tensioning with galvanized hoop iron ties, all strictly to the manufacturer's specifications</u></b></p> <p>Isover factorylite. Install 50mm thick with thermal performance of Rval 2.5 non combustible, lightweight industrail building insulation in foil on one side, over purlins after tensioning with PVC coated wire fixed to top of purlin</p>	m2	305	
	<b>Carried to Collection</b>		R	
	<p>Section No. 2 Bill No 6 - Roof Covering <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Section No. 2				
Bill No. 6				
Bill No 6 - Roof Covering				
<b><u>COLLECTION</u></b>				
	<b>Page No</b>		<b>Amount</b>	
Total Brought Forward from Page No.	83			
Total Brought Forward from Page No.	84			
Total Brought Forward from Page No.	85			
Total Brought Forward from Page No.	86			

**Carried Forward to Summary of Section No. 2**

Section No. 2  
Bill No 6 - Roof Covering  
**PROVISIONAL BILLS OF QUANTITIES**

R



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount
	<p><b>BILL NO. 7</b></p> <p><b>CARPENTRY AND JOINERY</b></p> <p><b>(WORK GROUP 126)</b></p> <p><b>PREAMBLES</b>For preambles refer to  <b>"Department of Public Works: Specification of Materials and Method to be used - PW371"</b></p> <p><b>NOTE</b></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><b>SUPPLEMENTARY PREAMBLES</b></p> <p><b>Fixing</b></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at maximum 600mm centres, and where described as "bolted" the bolts have been given elsewhere</p> <p><b>Sealing of all abutments</b></p> <p>All cupboards, counter tops, shelves, etc. abutting walls, tiled surfaces, etc. to be sealed watertight with an approved silicon sealant along all joints</p> <p>Unless described, tendered rates must make provision for this as no additional claims in this regard will afterwards be entertained</p>			
	<b>Carried to Collection</b>		R	
	Section No. 2 Bill No 7 - Carpentry and Joinery <b>PROVISIONAL BILLS OF QUANTITIES</b>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>ROOFS</u></b>				
<b><u>Sawn softwood</u></b>				
1	38 x 228mm Beam	m	92	
2	38 x 114mm Bracing	m	1 110	
3	50 x 76mm Purlins	m	1 398	
4	38 x 38mm brandering	m	1 402	
5	38 x 114mm Rafters in repair work	m	1 093	
<b><u>Sundries</u></b>				
6	Two coats creosote on sawn timbers	m2	25	
<b><u>EAVES, VERGES, ETC</u></b>				
<b><u>Fibre cement fascia and barge boards</u></b>				
7	12 x 225mm thick fibre cement fascia boards	m	574	
<b><u>Nutech Fibre cement fascia and barge boards</u></b>				
8	12 x 225mm thick fibre cement fascia boards	m	91	
<b><u>Hardwood</u></b>				
9	75 x 19mm hardwood bearer, black cherry	m	366	
<b><u>DOORS, ETC (ALL DOORS TO HAVE 60 MINUTES FIRE-RESISTANCE)</u></b>				
<b><u>NOTE:</u></b>				
All framed and ledged batten doors and combination doors, where battens are utilised, shall only be of construction acceptable to the Department, i.e. mortice and tennon where the tennon is exposed on the outside edges of styles and where the tennon is wedged to form a dovetailed shape.				
Paint backs of subframes one coat wood primer before building in all timber frame				
<b>Carried to Collection</b>			R	
Section No. 2 Bill No 7 - Carpentry and Joinery <b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<b><u>HARDWOOD DOORS, ETC</u></b>				
	<b><u>Meranti framed, ledged, braced and battened door, formed of 110 x 44mm sides, 110 x 44mm top rail, 110 x 22mm middle rail, top and bottom brace and 220 x 44mm bottom rail, all filled in with 63mm tongue and groove slats and 3mm hardwood backing board</u></b>				
10	44mm Single door 901 x 2076mm high	No	3		
11	44mm Rebated double door size 1600 x 2032mm high overall, in two unequal leaves	No	2		
	<b><u>SOLID DOORS, ETC</u></b>				
	<b><u>Flush solid core hardwood doors with concealed hardwood edge and 3mm masonite panels to both sides suitable to receive paint and hung to steel doorframe</u></b>				
12	45mm single door size 813 x 2032mm high overall	No	100		
13	45mm single door size 936 x 2080mm high	No	1		
14	44mm double door size 1500 x 2085mm high overall, external quality solid core.	No	3		
15	40mm double door size 1500 x 2030mm high	No	7		
16	40mm double door size 1500 x 2032mm high	No	4		
17	44mm single door size 900 x 2465mm high overall, external quality solid door. DT8	No	2		
18	44mm single door size 900 x 2125mm high overall, external quality solid core. DT24	No	1		
	<b><u>JOINERY FITTINGS</u></b>				
19	Provide an amount of R 2 000 000 (Two Million Rands) for fittings, counters, cupboards and all joinery fittings in building to the required standards all as directed by the principal agent		Item	2 000 000.00	
	<b>Carried to Collection</b>			R	
	Section No. 2 Bill No 7 - Carpentry and Joinery <b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Section No. 2				
Bill No. 7				
Bill No 7 - Carpentry and Joinery				
<b><u>COLLECTION</u></b>				
	<b>Page No</b>		<b>Amount</b>	
Total Brought Forward from Page No.	88			
Total Brought Forward from Page No.	89			
Total Brought Forward from Page No.	90			
Total Brought Forward from Page No.	91			

**Carried Forward to Summary of Section No. 2**

Section No. 2  
Bill No 7 - Carpentry and Joinery  
**PROVISIONAL BILLS OF QUANTITIES**

R

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount	
	<p><b><u>BILL NO. 8</u></b></p> <p><b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b></p> <p><b><u>(WORK GROUP 129)</u></b></p> <p><b><u>PREAMBLES</u></b>For preambles refer to  <b><u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></b></p> <p><b><u>NOTE</u></b></p> <p>All prices/rates to be net, excluding Value Added Tax</p>				
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2  Bill No 8 - Ceilings, Partitions and access flooring  <b>PROVISIONAL BILLS OF QUANTITIES</b></p>		R		

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b>Fixing</b></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at maximum 600mm centres, and where described as "bolted" the bolts have been given elsewhere</p> <p><b>Ceilings</b></p> <p>Unless otherwise described, ceilings shall be deemed to be horizontal</p> <p><b>Suspended ceilings, bulkheads, etc</b></p> <p>All suspended ceilings, bulkheads, etc. shall be installed by an approved firm of specialists, all in accordance with the materials supplied and methods employed by Manufacturer</p> <p><b>Proprietary suspended ceilings</b></p> <p>Hangers, suspension grids, "lay-in" panels, etc. of suspended ceilings, bulkheads, etc are to be in accordance with the Manufacturers recommendation</p> <p><b>Bulkheads</b></p> <p>Bulkhead are defined as those portions of ceilings which are stepped vertically down or up from the general ceiling level and which generally occur along the perimeter of a room or area</p> <p>Bulkheads have only been described as such where they conform to the above defination and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions do exceed 900mm, such portions of ceilings have been included in the appropriate general items of ceilings</p> <p>Unless otherwise described, bulkheads shall be deemed to be horizontal along the length</p>				
<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2 Bill No 8 - Ceilings, Partitions and access flooring <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			<p style="text-align: center;">R</p>	

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>CEILINGS, ETC</u></b>					
<b><u>NAILED UP CEILINGS</u></b>					
<b><u>Note:</u></b>					
The tenderer shall make allowance in the ceilings for electrical light fittings, diffusers, panels, etc and 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)					
Tenderers are advised to make allowance in their prices for ceiling subframes where required					
<b><u>Lambda board</u></b>					
1	Lambda board laminated polyisocyanurate core board with a minimum core density of 34kg/m3 and a minimum thickness of 85mm, faced with white mineral on one side and mineral natural on the other side. Supplied in widths of 1200mm or less and lengths from 200m to 12000mm. Boards to be fixed snug between the trusses and to be secured by mechanically fastening quarter rounds to the underside of the Lambdaboard by using nails.	m2	3 027		
2	Extra over ceiling for opening for 600 x 600 mm trap door complete with trimmers, frame, cross branders, ceiling board, hinges, etc	No	18		
<b><u>SKIMMED CEILINGS</u></b>					
<b><u>Skimmed Soffit</u></b>					
3	Off shutter concrete, smooth and paint	m2	15		
<b><u>VINYL CEILING</u></b>					
<b>Carried to Collection</b>				R	
Section No. 2 Bill No 8 - Ceilings, Partitions and access flooring <b>PROVISIONAL BILLS OF QUANTITIES</b>					



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p><b><u>Suspended vinyl tile</u></b></p> <p>4 1200 x 600 x 12mm thick shell white siniat square edge vinyl ceiling tiles or equal approved, including Siniat ceiling grid exposed face 24mm tee suspended ceiling grid system. Main tee's spaced at 1200mm and cross tee's spaced at 600mm (1200 x 600 system). Ceiling tee's to be white capped. Main tee's supported at 1200mm maximum. Installation to be in accordance with SABISA</p> <p style="text-align: right;">m2</p> <p><b><u>CORNICE</u></b></p> <p><b><u>Gypsum cornice</u></b></p> <p>5 75 x 75mm gypsum coved cornice , fixed to wall and ceiling using approved water-based adhesive, filling all fixing holes with an approved acrylic sealant, all in accordance with the manufacturers recommendations, or similar approved.</p> <p style="text-align: right;">m</p>	<p>396</p> <p>2 113</p>		
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2 Bill No 8 - Ceilings, Partitions and access flooring <b>PROVISIONAL BILLS OF QUANTITIES</b></p>		<p style="text-align: right;">R</p>	

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Section No. 2				
Bill No. 8				
Bill No 8 - Ceilings, Partitions and access flooring				
<b><u>COLLECTION</u></b>				
	<b>Page No</b>		<b>Amount</b>	
Total Brought Forward from Page No.	93			
Total Brought Forward from Page No.	94			
Total Brought Forward from Page No.	95			
Total Brought Forward from Page No.	96			
Total Brought Forward from Page No.	97			

**Carried Forward to Summary of Section No. 2**

R

Section No. 2

Bill No 8 - Ceilings, Partitions and access flooring

**PROVISIONAL BILLS OF QUANTITIES**

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount	
	<p><b><u>BILL NO. 9</u></b></p> <p><b><u>FLOOR COVERINGS, WALL LINNING, ETC.</u></b></p> <p><b><u>(WORK GROUP 130)</u></b></p> <p><b><u>PREAMBLES</u></b>For preambles refer to  <b><u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></b><b><u>Note</u></b>Newly installed floors should not be wet within 3 days of installation. contractor will remove and replace at own cost of it occurs that floor are wet before lead time.  <b><u>preparation</u></b>Clean the floor with a neutral cleaner using hand or 3m Red pad rotary machine , pick up dirty water with a wiper and mop or wet vacuum, rinse with clean water and allow floor to dry. do not use high PH chemicals to remove stains. Use "Forbo cleaner" or " Marmoleum Floor Cleaner" to maintain uniform texture after cleaning</p> <p><b><u>NOTE</u></b></p> <p>All prices/rates to be net, excluding Value Added Tax</p>				
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2  Bill No 9 - Floor Coverings, Wall Linning, etc.  <b>PROVISIONAL BILLS OF QUANTITIES</b></p>		R		

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b>Floor coverings and wall linings</b></p> <p>All floor coverings and linings are to be supplied, laid and sealed complete on a cement screed (screed somewhere) under guarantee by an approved firm of Specialist</p> <p><b>Sealing of joints</b></p> <p>All joints between floor coverings and wall linings to be butted and heat welded ensuring the welding agent bonds to more than 70% of the respective sheet thickness</p> <p>All abutments between floor coverings, wall linings, etc. and other members, ie. fittings, skirtings, corner protectors, etc are to properly sealed with an approved sealant of an approved colour</p> <p>Tendered rates must make provision for the above-mentioned as no additional claims in this regard will afterwards be entertained</p> <p>Note: Newly installed floors should not be wet within three days of installation. Contractor will remove and replace at own cost if discovered that the floors have been wet before the lead time.</p> <p><b>Finished Surfaces</b></p> <p><b>Contractor to ensure that surfaces are even and suitable to receive a specified finish as no extra cost shall be entertained</b></p>					
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2 Bill No 9 - Floor Coverings, Wall Linning, etc. <b>PROVISIONAL BILLS OF QUANTITIES</b></p>		<p style="text-align: right;">R</p>		

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>FLOOR AND WALL LINING</u></b>					
<b><u>"FLOORWORX" or similar and approved</u></b>					
<b><u>2.0mm thick x 2.0m wide surestep multi-layered safely vinyl sheeting with PUR Pearl surface treatment, manufactured in accordance with EN 649 and laid in Floorworx No. 62 acrylic adhesive which has been spread using a trowel fitted with an A2 notched blade at the rate of between 5.5m2 and 6.5m2 per litre on a previously prepared Class 1 sub-floor in accordance with SANS 10070, using Floorworx Self leveller, including all cutting and waste. The sheeting must be rolled in both directions with an articulated 68kg 3-sectional roller immediately after it has been laid into the adhesive. Joins must be butted, grooved and heat welded rod, ensuring that the welding rod bonds to more than 70% of the sheet thickness.</u></b>					
1	On floors including self levelling screed	m2	3 489		
2	150mm high floorworx vinyl sheeting skirting	m	2 526		
3	20 x 20mm cove former finished with a PVC capping strip, installed strictly as per manufacturers detail specification	m	2 437		
<b><u>5.0mm thick x 2.0mm wide gymfit 50 vinyl sheeting, manufactured in accordance with EN 651 and laid in floorworx No. 62 acrylic adhesive which has been spread using a trowel fitted with an A2 notched blade at a rate of between 5.5m2 and 6.5m2 per litre on a previously prepared class 1 sub-floor in accordance with SANS 10070 , using floorworx self leveller when required, including all cutting and waste. The sheeting must be rolled in both directions with an articulated 68kg 3-sectional roller immediately after it has been laid into the adhesive. Joins must be butted, grooved and heat welded using the manufacturers welding rod, ensuring that the welding rod bonds to more than 70% of the sheet thickness.</u></b>					
4	On floors including self levelling screed	m2	904		
<b>Carried to Collection</b>				R	
Section No. 2 Bill No 9 - Floor Coverings, Wall Lining, etc. <b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

5	150mm High coved prefinished skirting	m	20		
6	20 x 20mm cove former finished with a PVC capping strip, installed strictly as per manufacturers detail specification	m	20		
	<b><u>2.6mm thick x 2.0m wide sarlon sparkling 15dB acoustic heterogeneous vinyl sheeting. Colour: light taupe</u></b>				
7	On floors including self levelling screed	m2	299		
8	150mm High coved prefinished skirting	m	189		
9	20 x 20mm cove former finished with a PVC capping strip, installed strictly as per manufacturers detail specification	m	189		
	<b><u>FLOOR SKIRTING</u></b>				
	<b><u>Terraccotta skirting</u></b>				
10	300 x 150mm terraccotta skirting with an approved adhesive laid on screed to architects approval. Grout all joints and seal , all grouting to be continuous in both sides.	m	76		
<b>Carried to Collection</b>				R	
Section No. 2 Bill No 9 - Floor Coverings, Wall Linning, etc. <b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Section No. 2				
Bill No. 9				
Bill No 9 - Floor Coverings, Wall Linning, etc.				
<b><u>COLLECTION</u></b>				
	<b>Page No</b>		<b>Amount</b>	
Total Brought Forward from Page No.	99			
Total Brought Forward from Page No.	100			
Total Brought Forward from Page No.	101			
Total Brought Forward from Page No.	102			
<b>Carried Forward to Summary of Section No. 2</b>			R	
Section No. 2				
Bill No 9 - Floor Coverings, Wall Linning, etc.				
<b>PROVISIONAL BILLS OF QUANTITIES</b>				



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount	
	<p><b><u>BILL NO. 10</u></b></p> <p><b><u>IRONMONGERY</u></b></p> <p><b><u>(WORK GROUP 132)</u></b></p> <p><b><u>PREAMBLES</u></b>For preambles refer to  <b><u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></b></p> <p><b><u>NOTE</u></b></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b>Fixing of door locks, handles, flush bolts etc</b></p> <p>Fixing of all locks, handles, flush bolt, etc. shall be regarded as fixed to timber door leaves, unless specifically otherwise indicated</p> <p><b>Preparation of door frames</b></p> <p>Descriptions for flush bolts, door closers, floor spring, etc. shall be deemed to include all necessary preparations to door frames to accomodate same.</p> <p>Tendered rates must make provision for the above-mentioned as no additional claims in this regards will afterwards be entertained</p> <p>All "en-suite" locks shall be ordered to operate in a dedicated master keyed and/or grand master keyed lock system</p>				
	<p><b><u>SUPPLY AND INSTALLATION OF IRONMONGERY</u></b></p>				
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2  Bill No 10 - Ironmongery  <b>PROVISIONAL BILLS OF QUANTITIES</b></p>		R		

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>PUSH PLATES, KICKING PLATES , NAMEPLATES, ETC</u></b>				
<b><u>Armour plates</u></b>				
1	900mm high, 1.2mm thick stainless steel grade 304 armour plates	No	86	
<b><u>Kickplates</u></b>				
2	900 x 200mm blank S/S	No	69	
3	900 x 900 x 2mm thick stainless steel kick plates	No	37	
<b><u>BATHROOM FITTINGS</u></b>				
4	Approved nylon shower curtain, including hangers, fixed to rail	No	5	
<b><u>Grabrail</u></b>				
5	Franke fine drip- surface , Stainless steel steel 18/10 Screws and dowels are included. Size 750 x 95mm wide	No	2	
<b><u>Towel rails</u></b>				
6	Cobra watertech collette chrome plated towel rail(code : AC-0910-100) size 590 x 60mm wide, plugged and scwed to wall	No	24	
<b><u>Toilet tissue dispenser</u></b>				
7	Bidvest steiner TR3- Toilet roll holder lockable with central shaft to reduce theft. Inspection window for at-a- glance maintenance and refilling. Easy to refill, durable and vandal proof	No	18	
<b><u>Hand dryer</u></b>				
8	Air towel 360 Sateen, fully automatic satin finish stainless steel dryer. Vandal-proof, touch-free operation with tamper-proof bolts and a side-mounted heating element inaccessible through air outlet.	No	8	
<b>Carried to Collection</b>			R	
Section No. 2 Bill No 10 - Ironmongery <b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<b><u>Towel dispenser</u></b>				
9	Stenier paper towel dispenser, durable and lockable dispenser	No	39		
	<b><u>Paper towel dispenser</u></b>				
10	Franke Rodan 0.8mm thick satin finished stainless steel paper towel dispenser, size 275 x 112 x 355mm high with a capacity of 500-800 towels, inspection windows on the side and franke standard key, plugged and screwed to the wall with stainless steel screws.	No	81		
	<b><u>Soap holder</u></b>				
11	Vaal sanitary ware quick-fit double soap dish. Fixed onto the wall with glue and silicone . Code : 71511085, MZ005369, 6005826041286 or equally approved. Soap holder to be fixed as per manufacturers specifications.	No	32		
	<b><u>Soap dispenser</u></b>				
12	310 x 105 x 160mm soap dispenser with closed cartridge system to ensure no cross contamination when decanting. Hidden locking system to prevent pilferage. Large view window for at a glance maintenance	No	38		
	<b><u>Disposal bin</u></b>				
13	600 x 380 x 240mm wall mounted binmounted underneath the paper towel dispenser. Bracket mounting to remove bin for easy cleaning or replacement.	No	37		
14	BR-SB230 sanitary bin pedal unique mini design suitable for small toilets. Special lock-on feature for easy cleaning - bin body made of polypropylene and cover and pedal made of ABS plastic-heavy duty pedal for hands free sanitary refuse disposal-choice of finger lifting	No	5		
<b>Carried to Collection</b>				R	
Section No. 2 Bill No 10 - Ironmongery <b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<b>Mirrors</b>				
15	450mm width x 600mm depth x 4mm thick mirror above wash-hand basin @ 1,010mm above ffl, to be fixed to wall by means of adhesive, concealed thief resistant fixings, plugged and screwed to the wall with stainless steel screws.	No	34		
	NB :To be @ 1010mm above ffl				
16	300 x900 x6mm silver float glass copper backed fixed with chrome plated screw heads at corners.	No	1		
17	600 x 600 x 6mm silve float glass copper backed fixed with chrome plated screw heads at corners	No	3		
18	600mm width x 900mm depth x 4mm thick mirror above wash hand basin @ 1010mm above ffl, to be fixed to wall by means od adhesive, concealed thief resistant fixings, plugged and screwed to the wall with stainless steel screws.	No	15		
				R	
Carried to Collection					
Section No. 2 Bill No 10 - Ironmongery <b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>HAT AND COAT HOOKS, ETC.</u></b>			
<b><u>"Franke" stainless steel robe hook or similar and approved by the Principal Agent</u></b>			
<b><u>Hooks</u></b>			
19	HK005 broom and mop hook	No	2
20	HK006 hat and coat hook	No	1
21	Robe hook with rubber stop code 2120090 size 68 x 40mm fixed or plugged	No	36
<b>Carried to Collection</b>			
Section No. 2 Bill No 10 - Ironmongery <b>PROVISIONAL BILLS OF QUANTITIES</b>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Section No. 2				
Bill No. 10				
Bill No 10 - Ironmongery				
<b><u>COLLECTION</u></b>				
	<b>Page No</b>		<b>Amount</b>	
Total Brought Forward from Page No.	104			
Total Brought Forward from Page No.	105			
Total Brought Forward from Page No.	106			
Total Brought Forward from Page No.	107			
Total Brought Forward from Page No.	108			
Total Brought Forward from Page No.	109			

**Carried Forward to Summary of Section No. 2**

Section No. 2  
Bill No 10 - Ironmongery  
**PROVISIONAL BILLS OF QUANTITIES**

R

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKOGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO. 11</u></b></p> <p><b><u>STRUCTURAL STEEL</u></b></p> <p><b><u>(WORK GROUP 134)</u></b></p> <p><b><u>PREAMBLES</u></b>For preambles refer to  <b><u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></b></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
	<p><b><u>STRUCTURAL STEEL (Provisional)</u></b></p> <p><b><u>Standardised Specifications</u></b></p> <p>The SANS 1200 1200H Standardised Specification for Civil Engineering Construction for Structural Steelwork is applicable to this Bill</p> <p>The SANS 1200 1200HC Standardised Specification for Civil Engineering Construction for Corrosion Protection of Structural Steelwork is applicable to this Bill</p> <p><b><u>Project Specification</u></b></p> <p>If the Standardised Specifications and the Project Specification (bounded in this document) are in conflict, the Project Specification shall apply. If these three specifications conflicts with the Model Preambles for Trades, the provisions of these specifications shall apply.</p> <p><b><u>Descriptions</u></b></p> <p>Descriptions of all structural steelwork shall be deemed to include for the preparation of shop detail drawings, supply and fabrication, delivery, abnormal loads, erection and approved protective treatment (Corrosion protection).</p>			
	<b>Carried to Collection</b>		R	
	<p>Section No. 2</p> <p>Bill No 11 - Structural Steel</p> <p><b>PROVISIONAL BILLS OF QUANTITIES</b></p>			



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p>Items described as "bolted" shall be deemed to exclude the bolts and include the holes.</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>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete. Where anchor bolts are described as embedded in sides or soffits of concrete it shall be deemed to include holes through formwork.</p>				
	<p style="text-align: right;"><b>Carried to Collection</b></p>		R		
	<p>Section No. 2 Bill No 11 - Structural Steel <b>PROVISIONAL BILLS OF QUANTITIES</b></p>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO. 12</u></b></p> <p><b><u>METALWORK</u></b></p> <p><b><u>(WORK GROUP 136)</u></b></p> <p><b><u>PREAMBLES</u></b>For preambles refer to  <b><u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></b></p> <p><b><u>NOTE</u></b></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Descriptions</u></b></p> <p>Descriptions of expansion 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><b>Burglar bars to windows</b></p> <p>All opening sections shall be filled with burglar bars, unless otherwise described</p> <p><b>Glazing beads to windows</b></p> <p>Guarantees for glass shall be provided upon completion of the works.</p> <p>Tendered rates must make provision for the above-mentioned as no additional claims in this regards will afterwards be entertained</p> <p><b><u>MILD STEEL DOOR FRAMES, INCLUDING BUILDING INTO BRICKWORK</u></b></p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>Bill No 12 - Metalwork</p> <p><b>PROVISIONAL BILLS OF QUANTITIES</b></p>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<u><b>1.6mm mild steel double rebated door frame for 110/230mm brick wall plastered both sides complete with one pair butt hinges screwed to door frame, adjustable striker plate, rubber buffer on striker side and welded on lugs.</b></u>				
1	Frame for door size 813mm x 2032mm high	No	91		
2	Frame for door size 901mm x 2076mm high	No	10		
3	Frame for door size 936mm x 2135mm high	No	1		
4	Frame for door size 1600 x 2032mm high	No	6		
5	Frame for double door size 1500mm x 2085mm high with 7.4mm clear safety glass	No	1		
6	Frame for double door size 1500mm x 2032mm high	No	6		
	<u><b>STEEL DOORS</b></u>				
	<u><b>Standard mild steel single french door for wall plastered both sides with one pair butt hinges screwed to door frame, adjustable striker plate, rubber buffer on striker side and welded on lugs.</b></u>				
7	Door size 1816 x 2050mm high	No	8		
8	Door size 800 x 2100mm high	No	10		
9	Door size 1511 x 2134mm high	No	2		
	<u><b>Duowin or equally approved Type M transformer steel door or equal approved</b></u>				
10	Door size 1524 x 2134mm high	No	2		
	<u><b>STEEL WINDOWS</b></u>				
	<b>Carried to Collection</b>			R	
	Section No. 2 Bill No 12 - Metalwork <b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<b><u>Standard type steel type sashes, constructed of rolled steel sections, with a flanged frame bar all round, suitable for fixing to brickwork.</u></b>				
11	Window W08 size 1511 x 1545mm high	No	3		
12	Window WT2 size 1510 x 1540mm high	No	7		
13	Window WT3 size 1020 x 1245mm high	No	1		
14	Window WT8 size 6185 x 1140mm high	No	8		
15	Window WT11 size 2465 x 1140mm high	No	11		
	<b><u>STEEL MESH, BURGLAR ETC</u></b>				
	<b><u>Mesh</u></b>				
16	Proven stainless steel grade 304 flyscreen mesh panel, enclosed in an aluminium frame with a white powder coated finish.	m2	49		
	<b><u>Burglar</u></b>				
	<b><u>STEEL BURGLAR</u></b>				
	<b><u>Steel burglar proofing constructed from 10mm solid round bars by specialist.</u></b>				
17	Size 660 x 1075mm high	No	2		
18	Size 1511 x 1545mm high	No	10		
19	Size 813 x 2032mm high	No	28		
20	Size 986 x 1140mm high	No	4		
	<b>Carried to Collection</b>			R	
	Section No. 2 Bill No 12 - Metalwork <b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>ALUMINIUM</u></b>					
<b><u>Shadow line wall angle</u></b>					
21	3000mm long 22 x 45 x 15mm natural anodised aluminium shadow line plaster trim or similar approved	m	285		
<b><u>Main tees</u></b>					
22	Main Tee's 3600mm in length	m	148		
23	Cross Tee's 1200mm in length	m	136		
<b><u>Fascias</u></b>					
24	80 x 0,9mm thick aluminium seamless fascia, coated internally and externally with Zinc Al, fixed to 75 x 50mm steel purlins. Colour to match roof sheeting	m	127		
<b><u>Boards</u></b>					
25	2000 x 1000mm patient bed number board	No	1		
<b><u>ALUMINIUM WINDOWS, ETC., INCLUDING BUILDING INTO BRICKWORK</u></b>					
<p><b><u>NOTE:</u></b> Indicative window schedules are attached at the end of</p> <p>the bills of quantities to assist the tenderer in pricing</p> <p>Rates for the following aluminium windows are to include for supplying and building in of temporary templates</p> <p><b><u>Design, supply, deliver to site and install the following windows/shopfront in accordance with the manufacturers instructions must be approve by the architect</u></b></p> <p><b><u>Powder coated, Bronze aluminium framing NKCASA casement type for 16mm combinations as supplied by HBS systems or equally approved including 6.38mm obscured glass safety glazing and to be fixed as per manufacturers specifications.</u></b></p>					
<b>Carried to Collection</b>					
Section No. 2 Bill No 12 - Metalwork <b>PROVISIONAL BILLS OF QUANTITIES</b>					



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

31	<b><u>ALUMINIUM LOUVRES, ETC</u></b>	No	8			
	<b><u>Custom made natural anodised aluminium louvres</u></b>					
	Louvre type 300 x 300mm					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Section No. 2				
Bill No. 12				
Bill No 12 - Metalwork				
<b><u>COLLECTION</u></b>				
	<b>Page No</b>		<b>Amount</b>	
Total Brought Forward from Page No.	116			
Total Brought Forward from Page No.	117			
Total Brought Forward from Page No.	118			
Total Brought Forward from Page No.	119			
Total Brought Forward from Page No.	120			
Total Brought Forward from Page No.	121			
Total Brought Forward from Page No.	122			
Total Brought Forward from Page No.	123			
Total Brought Forward from Page No.	124			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount
	<p><b>BILL NO. 13</b></p> <p><b>PLASTERING</b></p> <p><b>(WORK GROUP 142)</b></p> <p><b>PREAMBLES</b>For preambles refer to  <b>"Department of Public Works: Specification of Materials and Method to be used - PW371"</b></p> <p><b>NOTE</b></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><b>SUPPLEMENTARY PREAMBLES</b></p> <p><b>Textured finishes</b></p> <p>All textured finishes are to be applied to the satisfaction of the Principal Agent and executed by an approved firm of Specialists, all strictly in accordance with the materials supplied and methods employed by the Manufacturer</p> <p><b>Preparatory work for textured finishes</b></p> <p>Textured finishes to be applied to surfaces as described. Rates tendered are to include for all necessary priming, preparatory work, etc.</p> <p>All surfaces are to be inspected and approved by the Principal Agent prior to any work is commenced with</p>			
	<b>Carried to Collection</b>		R	
	Section No. 2 Bill No 13 - Plastering <b>PROVISIONAL BILLS OF QUANTITIES</b>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>SCREEDS</u></b>			
<b><u>3:1 Cement plaster screeds steel trowelled on concrete</u></b>			
1	25mm Thick on concrete floors to receive tiles	m2	1 150
<b><u>GRANOLITHIC</u></b>			
<b><u>Tinted granolithic floor finish</u></b>			
2	25mm thick on concrete surface	m2	428
<b><u>INTERNAL PLASTER</u></b>			
<b><u>One coat (4:1) cement plaster on brickwork</u></b>			
3	On walls	m2	140
4	On narrow widths	m2	60
<b><u>On concrete</u></b>			
5	On ceilings	m2	224
6	On walls	m2	100
7	On narrow widths	m2	30
<b><u>DIVIDING STRIPS, COVER STRIPS ETC</u></b>			
<b><u>Strips</u></b>			
8	6mm Aluminium closed quadrant trim with an anodised matt silver finish and corners to suit	m	188
9	3 x 25mm Brass dividing strip with top flush with floor finish	m	68
<b><u>"Joint Master " or similar approved</u></b>			
10	Expansion joint seal series 800 Code 806- floor-floor cover strip	m	188
<b><u>REPAIR</u></b>			



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

11	<p><u>Repair plaster cracks by opening up with carborundum disk to 3mm or larger and filling with flexible crack filler</u></p> <p>ON WALLS</p> <p>m</p> <p>220</p> <p>Carried to Collection</p> <p>Section No. 2 Bill No 13 - Plastering <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			
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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Section No. 2				
Bill No. 13				
Bill No 13 - Plastering				
<b><u>COLLECTION</u></b>				
	<b>Page No</b>		<b>Amount</b>	
Total Brought Forward from Page No.	126			
Total Brought Forward from Page No.	127			
Total Brought Forward from Page No.	128			

**Carried Forward to Summary of Section No. 2**

R

Section No. 2

Bill No 13 - Plastering

**PROVISIONAL BILLS OF QUANTITIES**

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO. 14</u></b></p> <p><b><u>TILING</u></b></p> <p><b><u>(WORK GROUP 144)</u></b></p> <p><b><u>PREAMBLES</u></b>For preambles refer to  <b><u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></b></p> <p><b><u>NOTE</u></b></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b>Prices</b></p> <p>Prices are to include for all square cutting and waste, cleaning off on completion and protection from injury. Areas are measured net to face of bare brickwork and concrete</p>			
	<p><b><u>CERAMIC WALL TILES</u></b></p> <p><b><u>152 x 152 x 5mm white glazed ceramic splashback tiles (PC R450/m2 including delivery to site but excluding VAT) on vertical wall substrate with 20mm plaster backing. Tiles to run in both directions jointed and flush pointed with 5mm tile grouting joints as per architects approval. Tiles to be laid to the underside of the ceiling.</u></b></p>			
1	On walls	m2	120	
	<p><b><u>PORCELAIN FLOOR TILES</u></b></p>			
	<p style="text-align: right;"><b>Carried to Collection</b></p>		R	
	<p>Section No. 2  Bill No 14 - Tiling  <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<u>500 x 500 x 10mm UNION glazed full body porcelain tiles- CODE : ELEOCH30x60 (PC R550/m2 including delivery to site but excluding VAT) on wood floated screed on concrete surface bed with heavy duty aluminium expansion joints and 2mm wide grout joints (colour and tile as per architects approval) on concrete surface bed in pattern with expansion joints as per structural engineer, with rapid setting adhesive applied strictly as per manufactures detail specification. Provide 2mm wide joints and applied strictly as per manufactures detail specification.</u>				
2	On floors	m2	1 109		
3	150mm high x 600 x 8mm full body porcelain tiles on vertical wall substrate with 2mm wide grout joints (colour and tile as per architects approval) with rapid setting adhesive applied strictly as per adhesive manufactures detail specification. Provide 2mm wide joints and applied strictly as per manufactures detail specification.	m	77		
4	Cut tile edge to be finished with aluminium straight edge trim for 8-9mm tiles.	m	77		
<b>Carried to Collection</b>					
Section No. 2 Bill No 14 - Tiling <b>PROVISIONAL BILLS OF QUANTITIES</b>					R

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount	
	<p><b><u>BILL NO. 15</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b> <b><u>(PROVISIONAL)</u></b></p> <p><b><u>(WORK GROUP 148)</u></b></p> <p><b><u>PREAMBLES</u></b>For preambles refer to <b><u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></b></p> <p><b><u>NOTE</u></b></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b>Excavations</b></p> <p>Prices for excavations must include for necessary staging for risk of collapse of excavation side.</p> <p><b>Compacting</b></p> <p>Filling for all types of prices described as "under solid floors, etc" shall be done with approved backfilling and compacted to 93% Mod. AASHTO density, unless otherwise described</p> <p><b>Testing</b></p> <p>Descriptions for the testing of plumbing and drainage installations shall be deemed to cater for all testing apparatus, labour, etc. and shall be done strictly as directed by and in accordance to the Principal Agent's instructions, including for retesting after taking out and making good all defective work to his entire satisfaction</p>				
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2 Bill No 15 - Plumbing and drainage <b>PROVISIONAL BILLS OF QUANTITIES</b></p>		R		

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p><b><u>Vitrified clay pipes:</u></b></p> <p>Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid</p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p><b><u>uPVC pipes and fittings</u></b></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p>Soil, waste and vent pipe fittings shall be solvent weld jointed</p> <p><b><u>uPVC pressure pipes and fittings</u></b></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><b><u>Copper pipes</u></b></p> <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 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 siphon 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 ground.</p>			
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2 Bill No 15 - Plumbing and drainage <b>PROVISIONAL BILLS OF QUANTITIES</b></p>		R	

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p><b><u>Reducing fittings</u></b></p> <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 will be entertained.</p> <p><b><u>Excavations</u></b></p> <p>No claim for extra rock excavation will be entertained unless the Contractor has timeously notified the Quantity Surveyor , thereof prior to backfilling, in writing</p> <p>"Soft rock" and "Hard rock" shall be as defined in "Earthworks"</p> <p><b><u>Laying, Backfilling, Bedding, etc. of Pipes</u></b></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with the manufacturer's instructions</p> <p>Where no manufacturer's instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200L : Medium Pressure Pipes LD : Sewers LE : Stormwater Drainage</p> <p>Pipes trenches, etc. shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB: Earthworks (Pipe Trenches)</p> <p>Pipes shall be bedded in accordance with Clause 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB : Bedding (Pipes)</p> <p>Unless otherwise described bedding of rigid pipes shall be Class B bedding</p> <p><b><u>Flush pans</u></b></p> <p>Flush pans shall have straight or side outlets and "P" or "S" traps as necessary</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2 Bill No 15 - Plumbing and drainage <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			
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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<p><b><u>Waste unions</u></b></p> <p>Description of waste unions shall be deemed to include rubber or vulcanite plugs and chains</p> <p><b><u>DRAINAGE</u></b></p> <p><b><u>NOTE:</u></b> All items in this section shall be deemed to fall into Work Group No 146 for Haylett formula purposes</p> <p><b><u>SOIL DRAINAGE</u></b></p> <p>Unless otherwise stated herein, all items in this section shall be deemed to fall into Work Group No 146 for Haylett formula purposes.</p>				
<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2 Bill No 15 - Plumbing and drainage <b>PROVISIONAL BILLS OF QUANTITIES</b></p>		R		

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>RAINWATER DISPOSAL</u></b>					
<b><u>Rainwater pipes in Columns</u></b>					
1	63mm Diameter Pluvia pipes	m	2 527		
2	75mm Diameter Pluvia pipes	m	2 527		
3	110mm Diameter Pluvia pipes	m	2 527		
4	150mm Diameter Pluvia pipes	m	2 527		
5	Extra over 150mm rainwater pipe for bend	No			
6	Extra over 150mm rainwater pipe for splay cut end	No			
<b><u>SANITARY PLUMBING</u></b>					
<b><u>uPVC pipes</u></b>					
7	50mm Pipes fixed to walls	m	364		
8	50mm Pipes laid under slabs and including trenches not exceeding 1m deep	m	364		
9	110mm Pipes fixed to walls or soffits	m	364		
10	110mm Pipes laid under surface beds and including trenches not exceeding 1m deep	m	364		
11	110mm Pipe encased in concrete 20MPa/20 under surface beds and including excavation exceeding 1m and not exceeding 2m deep	m	364		
<b><u>Extra over upvc pipes for fittings</u></b>					
12	50mm Bend	No	182		
13	50mm Access bend	No	182		
14	50mm Access junction	No	182		
15	50mm Junction	No	182		
16	110 x 50mm Reducer	No	182		
<b>Carried to Collection</b>				R	
Section No. 2					
Bill No 15 - Plumbing and drainage					
<b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

17	110mm Plain bend	No	182				
18	110mm Access bend	No	182				
19	110mm Access junction	No	182				
20	110mm Pan connector	No	32				
21	110mm Bent pan connector	No	182				
22	110mm Two way vent valve	No	182				
<b><u>"VAAL"/ EQUAL APPROVED BY ARCHITECT</u></b>							
<div>Section No. 2 Bill No 15 - Plumbing and drainage <b>PROVISIONAL BILLS OF QUANTITIES</b></div>							

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKOGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>SANITARY FITTINGS</u></b>					
<b><u>Wash hand basin</u></b>					
23	Vitreous china 455 x 290mm wall-hung cloakroom basin with two semi-punched tapholes, integrated overflow and chain stay hole. Pillar tap with hot and cold indices. 1/2"BSP male connection end	No	17		
24	EXOS. multiple wash basin made of mirant resin-bonded mineral material with pore-free, smooth gelcoat high-polished surface (tempera ture-resistant up to 80 degrees). Colour Alpine white, with storage surfaces. Mounting on washbasin back panel. The unit has up to 5 seamless moulded bowls, no overflow and lowered tap ledge with tap hole. Variable gaps between bowls, available with/without apron or gel-coated edges. Individual washbasin length up to 3600mm, with or without splashbacks. Mounting material, strainer waste DN 32, anti-theft device for waste cover with cover with Inoxplus coating included.	No	3		
25	White vitreous china 510 x 405mm with tap holes "VAAL Hibiscus (code 7023)" bolted to the wall with 3No. 10mm bolts (Code 8448ZO ). #2 mm C.P knuckle jointed p-traps. 2No. off pillar taps as cobra- No. 111-15" with star handles- 15mm (hot and cold water). "Cobra 301-32" 1-1/4" basin waste-slotted with back not , plug chain and stay.	No	2		
26	Franke model SAPSDF combination wash habd basin and drinking fountain, size 370 x 490 x 125mm manufactured from Grade 304 (18/10) stainless steel, 1.2mm gauge. Unit to be manufactured as a welded construction with a 40mm waste outlet and is to be recessed 125mm into a single brick cavity. Basin is fitted with a self-closing metering bib tap at the top of the unit and is fitted with fixing lugs to secure the basin into the wall	No	3		
27	Franke model oval B wash hand basins, 420 x 336 x 168mm deep. Unit to be manufactured from grade 304 (18/10) stainless steel, 1.2mm gauge. Unit to include a one piece pressed bowl, 360 x 280 x 130mm deep with 40mm waste outlet, with 30mm splash back ans 30mm radiused apron. Basin to be supplied with 20 x 20mm square mild steel gallows brackets. Basins to be fixed to the wall with 4 x 6mm anchor bolts.	No	4		
<b>Carried to Collection</b>				R	
Section No. 2 Bill No 15 - Plumbing and drainage <b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

28	BS2 wash hand basin, face wash	No	4		
	<b><u>Medical basins</u></b>				
29	Vaal sanitaryware fine fireclay 630 x 500mm rectangular 'Sola 630' medical basin with no Tapholes, overflow or chainstay hole. 32mm standing overflow tube, chrome plated (code 8630Z0) medical mixer (Cobra code 515/055H-21) 32 mm basin waste unslotted, 62mm flange, 80mm tailpiece(Cobra code 308) chrome plated bottle trap (Cobra code 340) Elbow action 1/4 turn wall type mixer with a swivel outlet 1/2 BSP male inlet. SANS 226 TYPE 2 515/055-21	No	47		
	<b><u>Water closet</u></b>				
30	Vaal sanitaryware vitreous china 104 degrees low level outlet washdown pan (code 751300) and matching junior Elite 6 litre cistern (code 7116LL) complete with lid and fitments, and Junior Jazz seat (code 8532Z000). The suite is designed to flush effectively on 6 litres. Pan can also used with a duct cistern(code 7116DP), or a concealed cistern.	No	4		
31	Model <a href="#">GYP.VS.RI/01</a> Vandal resistant Wc pan manufactured from polymer concrete and polished to smooth silky finish. Colour:white	No	16		
32	Vaal Sanitary ware W.C of white vitreous as "Vaal Daisy" ( Code:751453) semi-closed coupled 90deg outlet open rim wash down pan code (772403WH) complete with lid fitments and flush pipe elbow oe equally approved.	No	5		
33	Vaal sanitaryware vitreous china 'orchid paraplegic' back inlet (code 439016) 90deg wall hung open rim pan. Pan can be used with a concealed cistern or with a suitable back inlet flush valve.	No	2		
34	Vitreous china 'junior' floor mounted, rear entry open rim 104 degrees outlet pan compatible with rear inlet flush valve complete with lid and fitments. Colour: White. Installation of unit strictly to manufacturers specification. Provide junior jazz double flap thermoset seat	No	4		
<b>Carried to Collection</b>				R	
Section No. 2					
Bill No 15 - Plumbing and drainage					
<b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKOGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

35	<b><u>Urinal</u></b>				
	Vaal sanitaryware vitreous china 'lavareta' wall hung urinal top inlet (code 705426) overall size 600 x 385 x 380mm supplied with 38mm CP domical grating, top inlet fittings (code 7054z1) and back inlet fittings (code 7054Z2) including spreader and two hanger brackets. Provide Cobra FJ6000"340" (or equal and approved) CP bottle trap with 75mm deep seal, inlet screwed female outlet male.	No	4		
	<b><u>Bed pan</u></b>				
	36 Franke model BBR bedpan and bottle rack designed to hold plastic and stainless steel bedpans and bottles , manufactured from grade 304 (18/10) stainless steel 8mm diameter round bars and stainless steel flat bars mounting brackets. Bottle holders to be on the front of the unit to ensure ergonomic function. Unit complete with stainless steel drip tray which can be removed for cleaning and the ends of the bottle rods are fitted with rubber grommets. Unit fixed to wall with 4 off anchor bolts.	No	9		
	<b><u>Combination bedpan</u></b>				
	37 1830 x 685mm Model EC combination Bedpan and wash-up sink manufactured from Grade 304 (18/10 stainless steel 1.6mm (draining board ) and 1.2mm thick bowls. Unit with a 150mm high integral splashback to the rear and 15mm deep hospital bead 100mm aspron to front and sides. The unit is fitted with two pressed seamless bowls with the sluice bowl having an integral flushing rim and a 38mm diameter inlet pipe for the flush valve. The waste outlet on sluice bowl is a 110mm and the rinse bowl size 610 x 460 x 230mm deep with a 40mm waste discharging into sluice bowl.	No	5		
38	SS035 free standing bedpan washer (top loader)	No	3		
39	Vaal sanitaryware jazz double flap thermoset pan seat to existing pan.	No	11		
40	<b><u>Sluice</u></b>				
	SS107 single bowl sluice sink	No	2		
<b>Carried to Collection</b>				R	
Section No. 2 Bill No 15 - Plumbing and drainage <b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKOGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

41	EL sluice sink manufactured from grade 304 (18/10 stainless steel 1.6mm (draining board) and 1.2mm thick bowls. Unit with a 150mm high integral splash back to the rear and 15mm deep hospital bed 100mm apron to front and sides. The unit is fitted with a pressed seamless bowls sluice bowl having an inTTTh factory fitted cobra FMi.00 flush valve, 35mm water supply through 50mm sleeve on unit, 15mm bedpan spray nozzle (both sides nozzles activated by two 15mm quarter turn elbow action valves).	No	3		
	<b><u>Slophopper</u></b>				
42	Franke model CH slop hopper 540 x540mm manufactured from grade 304 (18/10) stainless steel 1,2mm thick with a 100mm high integral splashback to the rear and both sides. The cone must be seamless with no welding and have an integral flushing rim with a 107mm waste outlet for pan connector, the inlet is fitted with a 38 x 250mm long vertical flush pipe for a standard flush valve. Unit fitted with a bucket grid manufactured from 10mm diameter grade 304 (18/10) stainless steel round bar complete with two 40 x 4mm square stainless steel wall mounting gallows brackets. Unit fixed to wall 60mm from the top of the front apron to the finish floor level with 4 off anchor bolts	No	1		
	<b><u>Sink</u></b>				
	<b><u>Stainless steel sink</u></b>				
43	Single bowl, double drainer, sink manufactured from 1.2mm thick, grade 1.4301 (304) stainless, satin polish finish with a radiused front edge together with a radiused internal corner at the base of the upstand. All sink bowls are prepared for a 38mm waste outlet which can be supplied as an extra. Elbow action 1/4 turn wall type mixer with a swivel outlet. 1/2 BSP male inlet. SANS 226 TYPE 2 515/055-21	No	6		
44	Double bowl, double drainer, sink manufactured from 1.2mm thick , grade 1.4301(304)stainless steel, satin polish finish with a radiused front edge together with a radiused internal corner at the base of the upstand. All sink bowls are prepared for a 38mm waste outlet which can be supplied as an extra. Elbow action 1/4 turn wall type mixer with a swivel outlet. 1/2 "BSP male inlet. SANS 226 TYPE2 515/055-21	No	5		
<b>Carried to Collection</b>				R	
Section No. 2 Bill No 15 - Plumbing and drainage <b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

45	Double bowl sink manufactured from 1.2mm thick , grade 1.4301(304) stainless steel , satin polish finish. The sink top is turned down on all four edges and incorporates a wet area recess. The bowls are prepared for a 38mm waste outlet. Elbow action 1/4 turn wall type mixer with a swivel outlet. 1/2'BSP male inlet. SANS 226 TYPE 2 515/055-21	No	1		
46	SS3 1200 x 535mm stainless steel double end bowl drop-on sink	No	2		
47	SS016 stainless steel double end bowl drop-on sink	No	1		
48	SS020 1200 x 457mm stainless steel sink right	No	1		
49	SS016 Stainless steel sink double bowl	No	1		
	<b><u>Drip sink</u></b>				
50	Franke model LDS drip sink 600 x 500 x 258mm deep manufactured from grade 304 (18/10) stainless steel 0,9mm thick and with a 40mm waste outlet. Unit fitted with stainless steel hinged bucket grid manufactured from 10mm stainless steel round bar and a pair of stainless steel Eagle brackets. Unit fixed to wall 600mm high from the top of the front apron to finish floor level with 4 off anchor bolts.	No	1		
	<b><u>Lab sink</u></b>				
51	Single bowl double drainer sit on sinks with radiused front edge, manufactured from 1.2mm thick, grade 1.4301(304) stainless steel, satin polish finish. Sink profile incorporates a radiused front edge together with a radiused internal corner at the base of the up stand. Sink bowls are prepared for a 38mm waste outlet which can be supplied as an extra.	No	1		
	<b><u>Shower head</u></b>				
52	Cobra watertech 075SQ-15 square single function with balljoint connector and 1/2 female inlet shower head supplied with chrome plated 200 x 145mm square rose with antiline single function classic spray nipple.	No	1		
<b>Carried to Collection</b>				R	
Section No. 2 Bill No 15 - Plumbing and drainage <b>PROVISIONAL BILLS OF QUANTITIES</b>					



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

53	<b><u>Shower drain</u></b>				
	Cobra watertech 323CP shower Grating 75mm with 1 1/2" male inlet shower grating 75mm diameter shower grating 1 1/2" male inlet chrome plated flange	No	1		
	<b><u>"FRANKE"</u></b>				
	<b><u>Bathtub</u></b>				
	1 700 x 750mm rectangular freestanding assisted porcelain bathtub with stainless steel grade 304 free standing bath rails fixed to the wall and floor substrates. Provide chrome wall-mounted elbow action exposed bathmixer and handshower.	No	2		
55	1800 x 800 x 390mm Carmen, capacity : 185 litres	No	2		
	<b><u>CB baby bath</u></b>				
56	1500 x 555mm franke model CB Baby bath manufactured from grade 304 (18/10) stainless steel 1.2mm thick with a 150mm integral splash back to the rear.	No	9		
	<b><u>Mixer</u></b>				
57	Cobra chrome elbow action wall mounted medical mixer to existing sanitary fitting. Install 2.5mm thick smooth uPVC 'sure protect endure' splashback to basin, cut to 600 x 600mm size with pvc capper on all edges.	No	6		
<b>Carried to Collection</b>					R
Section No. 2					
Bill No 15 - Plumbing and drainage					
<b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>WASTE UNION</u></b>				
<b><u>"Cobra Watertech" or other equal and approved by the Principal Agent</u></b>				
58	Shower waste code 323 rough brass with 75mm diameter chromium plated shower grating	No	1	
59	32mm 301CP waste union	No	13	
60	38mm 316CP Sink waste union	No	25	
<b><u>TRAPS, ETC</u></b>				
<b><u>"Cobra Watertech" or other equal and approved by the Principal Agent</u></b>				
61	38mm Chromium plated bottle trap	No	25	
62	75mm Chromium plated bottle trap	No	13	
63	38mm 373/40 Shower trap	No	1	
<b><u>"Rubber"</u></b>				
64	40mm Deep seal "P" or "S" trap	No	58	
<b>Carried to Collection</b>				R
Section No. 2 Bill No 15 - Plumbing and drainage <b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>WATER SUPPLY</u></b>					
<b><u>Class O thin wall hard drawn copper pipes and fittings with capillary soldered type connections</u></b>					
67	15mm Pipes	m	364		
68	22mm Pipes	m	364		
69	28mm Pipes	m	364		
70	35mm Pipes	m	364		
71	42mm Pipes	m	364		
72	54mm Pipes	m	364		
<b><u>Extra over class O copper fittings for soldered capillary fittings</u></b>					
73	15mm Fitting	No	182		
74	22mm Fitting	No	182		
75	15mm Service pipe 350mm girth	No	182		
<b><u>Extra over 28mm diameter copper piping for soldered capillary fittings</u></b>					
76	Bend or elbow	No	182		
77	Tee	No	182		
78	Reducing tee	No	182		
79	Bush	No	182		
80	Reducing bush	No	182		
<b>Carried to Collection</b>				R	
Section No. 2 Bill No 15 - Plumbing and drainage <b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>Extra over 35mm diameter copper piping for soldered capillary fittings</u></b>				
81	Bend or elbow	No	182	
82	Tee	No	182	
83	Reducing tee	No	182	
84	Bush	No	182	
85	Reducing bush	No	182	
<b><u>Extra over 42mm diameter copper piping for soldered capillary fittings</u></b>				
86	Bend or elbow	No	182	
87	Tee	No	182	
88	Reducing tee	No	182	
89	Bush	No	182	
90	Reducing bush	No	182	
<b><u>Extra over 54mm diameter copper piping for soldered capillary fittings</u></b>				
91	Bend or elbow	No	182	
92	Tee	No	182	
93	Reducing tee	No	182	
94	Bush	No	182	
95	Reducing bush	No	182	
<b>Carried to Collection</b>				R
Section No. 2				
Bill No 15 - Plumbing and drainage				
<b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>FIRE APPLIANCES ETC.</u></b>				
96	Fire hose reel complete with 30m x 20m diameter hose, including reel, valve, nozzle and wall bracket bolted on	No	10	
97	9Kg Dry chemical fire extinguisher	No	10	
<b><u>WATER SUPPLY TO FIRE APPLIANCES</u></b>				
<b><u>Galvanised steel pipes</u></b>				
98	25mm Pipes	m	20	
<b><u>Extra over galvanised steel pipes for steel fittings</u></b>				
99	25mm Fittings	No	10	
<b><u>VALVES TO FIRE APPLIANCES</u></b>				
<b><u>"Cobra watertech" or other equal and approved by the Principal Agent</u></b>				
100	25mm 1001/125-25 PRESTEX brass fullway gate valve	No	10	
<b><u>Testing</u></b>				
101	Allow for testing the whole of the water supplies and fire service installation to the approval of the Representative/ Agent		Item	
<b><u>WATER APPLIANCES</u></b>				
<b><u>"Franke" or other equal and approved by the Principal Agent</u></b>				
102	Hydroboil 5 litre stainless steel code 2610010 instant boiling water 25 - 30 ups size 460 x 150mm.	No	8	
<b><u>Miscellaneous Items</u></b>				
103	Provide the sum of R1 000 000.00 (One Million Rands Only) for miscellaneous items			SUM
<b>Carried to Collection</b>				R
Section No. 2				
Bill No 15 - Plumbing and drainage				
<b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Section No. 2			
Bill No. 15			
Bill No 15 - Plumbing and drainage			
<b><u>COLLECTION</u></b>			
	<b>Page No</b>		<b>Amount</b>
Total Brought Forward from Page No.	133		
Total Brought Forward from Page No.	134		
Total Brought Forward from Page No.	135		
Total Brought Forward from Page No.	136		
Total Brought Forward from Page No.	137		
Total Brought Forward from Page No.	138		
Total Brought Forward from Page No.	139		
Total Brought Forward from Page No.	140		
Total Brought Forward from Page No.	141		
Total Brought Forward from Page No.	142		
Total Brought Forward from Page No.	143		
Total Brought Forward from Page No.	144		
Total Brought Forward from Page No.	145		
Total Brought Forward from Page No.	146		
Total Brought Forward from Page No.	147		
Total Brought Forward from Page No.	148		
Total Brought Forward from Page No.	149		
<b>Carried Forward to Summary of Section No. 2</b>		R	
Section No. 2			
Bill No 15 - Plumbing and drainage			
<b>PROVISIONAL BILLS OF QUANTITIES</b>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No	Quantity	Rate	Amount
<p><b><u>BILL NO. 16</u></b></p> <p><b><u>GLAZING</u></b></p> <p><b><u>(WORK GROUP 150)</u></b></p> <p><b><u>PREAMBLES</u></b>For preambles refer to  <b><u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></b></p> <p><b><u>NOTE</u></b></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b>Prices</b></p> <p>Prices are to include for all square cutting and waste, cleaning off on completion and protection from injury. Areas are measured net to face of bare brickwork and concrete</p>			
<p style="text-align: right;"><b>Carried to Collection</b></p>			
<p>Section No. 2  Bill No 16 - Glazing  <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

1	<p><b><u>GLAZING TO STEEL WITH PUTTY</u></b></p> <p><b><u>7.4mm thick laminated clear glass approved by the architect</u></b></p> <p>On windows</p> <p style="text-align: right;">m2</p> <p style="text-align: right;">250</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 16 - Glazing <b>PROVISIONAL BILLS OF QUANTITIES</b></p>				
			R		

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount	
	<p><b><u>BILL NO. 17</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p><b><u>(WORK GROUP 152)</u></b></p> <p><b><u>PREAMBLES</u></b>For preambles refer to  <b><u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b>Paint</b></p> <p>All paint, complete with undercoat, primer, etc., to be used strictly in accordance with the manufacturer's specification. Only paint which bears the described trade names will be permitted on site. No substitution will be allowed</p> <p><b>Previously painted plastered surfaces</b></p> <p>Surfaces shall be thoroughly washed down with sugar soap powder and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with Polycell Polyfilla and finished smooth</p> <p><b>Access</b></p> <p>Rates for painting steelwork, shall include access, for unlimited height</p>				
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2  Bill No 17 - Paintwork  <b>PROVISIONAL BILLS OF QUANTITIES</b></p>		R		

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK</u></b>					
<b><u>PAINT ON FLOATED PLASTER</u></b>					
<b><u>Prepare, stop and apply one coat Plaster Primer and 2 finishing coats of washable egg shell enamel paint ( or equal and approved). Preparation of walls and application of paint to to manufactures specification. Colour by Architect</u></b>					
1	On internal walls	m2	9 153		
2	On external walls	m2	4 034		
<b><u>Prepare, stop and apply two coats washable acrylic pva as per manufacturers specification.</u></b>					
3	On external window sills	m2	174		
4	On internal window sills	m2	172		
<b><u>On concrete</u></b>					
5	On walls	m2	100		
6	On skimmed and painted concrete	m2	272		
<b><u>ON FIBRE CEMENT</u></b>					
<b><u>Prepare and paint one coat universal undercoat and two coats exterior quality PVA paint as per manufacturers specifications.</u></b>					
7	On fascia/barge boards	m2	15		
<b><u>ON METAL</u></b>					
<b><u>Prepare and apply one coat metal primer , one coat undercoat and two coats enamel based paint</u></b>					
8	On steel cage walls	m2	496		
<b>Carried to Collection</b>				R	
Section No. 2 Bill No 17 - Paintwork <b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<b><u>Prepare and paint primer, one undercoat and two coats "Plascon Velvalglo" (or equal and approved) applied strictly to manufacturers detail and specifications. Colour to Architect</u></b>				
9	On doors	m2	265		
	<b><u>Prepare, stop and apply one coat universal undercoat and two coats gloss Enamel paint finish as per manufacturers specification.</u></b>				
10	Door frame	m2	65		
11	Window frame	m2	246		
	<b><u>Prepare and apply one coat hydroEtch/Galvinised Iron Primer then apply two coats Roof/Nu roof cool/Roof Guard.</u></b>				
12	On roofs	m2	2 618		
	<b><u>PAINT ON WOOD</u></b>				
	<b><u>Prepare and paint one coat wood primer and two coats of eggshell enamel applied as per manufacturers specifications. Colour as per architect specifications.</u></b>				
13	On general surfaces	m2	78		
	<b><u>Prepare and paint one coat wood primer and two coats of eggshell enamel applied as per manufacturers specifications. Colour as per architect specifications.</u></b>				
14	On door	m2	137		
Carried to Collection				R	
Section No. 2 Bill No 17 - Paintwork <b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p><u>Prepare, stop and apply sanding sealer and 3 coats exterior grade varnish paint to manufacturers detail specifications. Preparation of surface and application of paint to manufactures specification. Colour by Architect</u></p>				
15	On Double doors	m2	859		
<p><b><u>PAINTWORK, ETC. NEW WORKS</u></b></p> <p><b><u>PAINT ON FLOATED PLASTER</u></b></p> <p><u>Prepare, stop and apply one coat plascon or equally approved professional gypsum and plaster primer (code;PP 700), allow 16 hrs to dry , apply second coat as plascon professional Eggshell Enamel (PSB 700/TEG tint range ) allow 16 hrs dry apply finishing coat professional Eggshell Enamel. Colour as architects specification.</u></p>					
16	On internal walls	m2	81		
<p><u>Prepare, stop and apply one coat Plaster Primer and 2 finishing coats of washable egg shell enamel paint ( or equal and approved). Preparation of walls and application of paint to to manufactures specification. Colour by Architect</u></p>					
17	On internal sills	m2	60		
18	On external sills	m2	76		
				R	
<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2 Bill No 17 - Paintwork <b>PROVISIONAL BILLS OF QUANTITIES</b></p>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<b><u>ON METAL</u></b>				
	<b><u>Prepare, stop and apply one coat universal undercoat and two coats gloss Enamel paint finish as per manufacturers specification.</u></b>				
19	Door frame	m2	85		
20	Window frame	m2	81		
	<b><u>Prepare and apply one coat metal primer , one coat undercoat and two coats enamel based paint</u></b>				
21	On steel cage walls	m2	104		
	<b><u>Prepare and paint primer, one undercoat and two coats "Plascon Waterbased Enamel" (or equal and approved) applied strictly to manufacturers detail and specifications. Colour to Architect</u></b>				
22	On door	m2	99		
	<b><u>Prepare and paint primer, one undercoat and two coats "Plascon Velvalglo" (or equal and approved) applied strictly to manufacturers detail and specifications. Colour to Architect</u></b>				
23	On doors	m2	263		
	<b><u>Prepare, stop and metal primer, one coat universal undercoat and two coats "Plascon" (or equal and approved) water based Enamel paint finish. Coulour white.</u></b>				
24	Door frame	m2	61		
25	Window frame	m2	122		
	<b><u>PAINT ON WOOD</u></b>				
	<b>Carried to Collection</b>			R	
	Section No. 2 Bill No 17 - Paintwork <b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Section No. 2				
Bill No. 17				
Bill No 17 - Paintwork				
<b><u>COLLECTION</u></b>				
	<b>Page No</b>		<b>Amount</b>	
Total Brought Forward from Page No.	154			
Total Brought Forward from Page No.	155			
Total Brought Forward from Page No.	156			
Total Brought Forward from Page No.	157			
Total Brought Forward from Page No.	158			
Total Brought Forward from Page No.	159			
Total Brought Forward from Page No.	159			
<b>Carried Forward to Summary of Section No. 2</b>			R	
Section No. 2				
Bill No 17 - Paintwork				
<b>PROVISIONAL BILLS OF QUANTITIES</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount	
	<p><b><u>BILL NO. 1</u></b></p> <p><b><u>PROVISIONAL SUMS</u></b></p> <p><b><u>PREAMBLES</u></b>For preambles see "<b><u>Standard Model Specifications for Building Works PW371/Oct 93</u></b>"</p>				
	<p>1. All provisional sums cover the supply of material and equipment and of installation where applicable by firms of specialists. Provisional sums are not and do not include for builder's discount, but the tenderer may allow under the item for "Profit" . The tenderer is referred to item B7.1 and B7.2 in Section 1 ("Preliminaries") for the definitions and adjustment of "Attendance".</p> <p>2. Under no circumstances may any Prime Cost or Provisional Sum, etc be extended at an amount lower than the amount given in this Bill</p> <p>Provisional Sums 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 Provisional Sums or P.C. Amounts or any loss of profit related thereto.</p> <p>3. The following provisional sums for work to be executed by selected sub-contractors.</p>				
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2 Bill No 18 - Provisional Sums <b>PROVISIONAL BILLS OF QUANTITIES</b></p>		R		

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<b><u>SELECTED SUB-CONTRACTORS</u></b>					
<b><u>WATER SUPPLY</u></b>					
1	Provide a sum of R 2 000 000 (Two Million Rands) for water supply and storage.	Item		2 000 000.00	
2	Profit	Item			
3	Attendance	Item			
<b><u>FIRE TANK</u></b>					
4	Provide a sum of R 700 000 (Seven Hundred Thousand Rands) for fire tank including all related accessories and fittings	Item		700 000.00	
5	Profit	Item			
6	Attendance	Item			
<b><u>SEATS AND BENCHES</u></b>					
7	Provide a sum of R 600,000.00 (Six Hundred Thousand Rand) for seats and chairs	Item		600 000.00	
8	Profit	Item			
9	Attendance	Item			
<b><u>INFORMATION, COMMUNICATION AND TECHNOLOGY</u></b>					
10	Provide a sum of R 800,000.00 (Eight Hundred Thousand Rand) for seats and chairs	Item		800 000.00	
11	Profit	Item			
12	Attendance	Item			
<b>Carried to Collection</b>				R	
Section No. 2					
Bill No 18 - Provisional Sums					
<b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Bill No	SECTION SUMMARY - Section 2 - Builders' Work	Page No	Amount
1	Bill No 1 - Alterations	54	
2	Bill No 2 - Earthworks	61	
3	Bill No 3 - Concrete, formwork and reinforcement	71	
4	Bill No 4 - Masonry	79	
5	Bill No 5 - Waterproofing	82	
6	Bill No 6 - Roof Covering	87	
7	Bill No 7 - Carpentry and Joinery	92	
8	Bill No 8 - Ceilings, Partitions and access flooring	98	
9	Bill No 9 - Floor Coverings, Wall Linning, etc.	103	
10	Bill No 10 - Ironmongery	110	
11	Bill No 11 - Structural Steel	115	
12	Bill No 12 - Metalwork	125	
13	Bill No 13 - Plastering	129	
14	Bill No 14 - Tiling	132	
15	Bill No 15 - Plumbing and drainage	150	
16	Bill No 16 - Glazing	153	
17	Bill No 17 - Paintwork	160	
18	Bill No 18 - Provisional Sums	163	
<b>Carried to Final Summary</b>			
Section No. 2			
<b>PROVISIONAL BILLS OF QUANTITIES</b>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO 3</u></b> <b><u>BILL NO. 1</u></b></p> <p><b><u>FENCING (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For preambles see "Specification of materials and methods to be used - PW 371"</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to Section No. 3</u></b></p> <p>The Contractor is referred to the previous Section 2 for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this Bill, unless specifically otherwise described</p> <p><b><u>General</u></b></p> <p>The Contractor shall carry out the work with as little mess and noise possible and with a minimum of disturbance to the occupants. The Contractor shall provide proper protection and provide and erect any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Principal Agent, and remove when directed</p> <p><b><u>Site clearance</u></b></p> <p>All rubble, rubbish, vegetable soil, shrubs, bush, trees, etc. shall be removed from the whole area and carted away off the construction site to a suitable dumping site, which has to be located by the Contractor, all to the full satisfaction of the Principal Agent</p> <p><b><u>Filling (General)</u></b></p> <p>It will be, at all times, required from the Contractor to apply and execute strict quality control on all filling material used</p>			
	<b>Carried to Collection</b>		R	
	<p>Section No. 3 Bill No 1 - Fencing <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKOGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p>Samples of potential fill material obtained from excavations, trench excavations, etc. are to be submitted to and approved by the Principal Agent prior to the re-use thereof as "filling"</p> <p>All filling obtained from a commercial source should comply to minimum G6 standard</p> <p>Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source</p> <p>Filling in general shall be compacted to the prescribed percentage Mod AASHTO density</p> <p><b><u>CBR and indicator tests</u></b></p> <p>Density tests for monitoring filling shall be done at the minimum prescribed frequencies per each 150mm thick layer of filling placed</p> <p>The Contractor is to note that all necessary tests (i.e. CBR and indicator tests, etc.) are to be conducted for all filling material, whether obtained from the excavations or to be imported from an approved commercial source</p> <p>Results of these tests are to be submitted to and approved by the Principal Agent prior to commencement of any placement thereof and/or filling done therewith</p> <p><b><u>Density tests</u></b></p> <p>It will be required from the Contractor to execute density tests for monitoring filling at the following minimum frequencies per each filling layer placed:</p> <ul style="list-style-type: none"> <li>- <b>Filling to form building platforms, etc:</b> 1 Test per 200m<sup>2</sup> plan area per each 150mm thick layer</li> </ul> <p>Results of density tests executed are to be submitted to and approval obtained from the Principal Agent prior to commencement of any subsequent fill layers and/or other work</p>			
	<b>Carried to Collection</b>		R	
	<p>Section No. 3 Bill No 1 - Fencing <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p><b><u>Keeping excavations free from water:</u></b></p> <p>No separate provision has been made in this Bill for measurement and payment for bailing, pumping or otherwise keeping excavations free from water during the construction process of the work measured in this Bill</p> <p>Therefore, tenderers are to note that their tendered rates are to cater for the above-mentioned as no claims arising out of their failure to do so will afterwards be entertained</p> <p><b><u>Carting away of excessive and/or unsuitable excavated material</u></b></p> <p>Descriptions for "carting away excessive or unsuitable excavated material from site" shall, unless specifically otherwise described, be deemed to include the loading and hauling of excessive or unsuitable excavated material to a suitable dumping site, which has to be located by the Contractor, off the construction site</p> <p>The location of the intended dumping site will be subjected to the prior written approval of the Principal Agent</p> <p>The Contractor shall also be liable to, upon completion, to rehabilitate all areas of the site which was disturbed during the construction phase due to construction activities, temporarily dumping/spoiling of excavated material, etc. It will be required from the Contractor to grade such areas to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the Principal Agent</p> <p>Tendered rates must make provision for the above-mentioned as no additional claims in this regard will afterwards be entertained</p> <p><b><u>Relevant SANS 1200 Specifications</u></b></p> <p>The following relevant SANS 1200 Specifications shall be regarded applicable:</p>			
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 3 Bill No 1 - Fencing <b>PROVISIONAL BILLS OF QUANTITIES</b></p>		R	



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p>- <b>Earth mattresses, building platforms, etc:</b></p> <p>SANS 1200 AA      General (Small Works)  SANS 1200 C        Site clearance  SANS 1200 DE      Earthworks (Small works)  SANS 1200 ME      Sub-base  SANS 1200 MF      Base</p> <p>All work related to the above-mentioned elements shall be done with materials specified and in according to methods prescribed by the relevant SANS 1200 referred to</p> <p><b><u>SANS 1200 Specification (General)</u></b></p> <p>The SANS 1200 Specifications as referred to above were drawn up to cover activities normally encountered on civil engineering work, which is equally applicable on work scheduled hereunder for this project</p> <p>All the specifications referred to above, although not issued with these Bills of Quantities, shall be deemed to form part of this document and shall be considered as applying to the performance of work to be completed in terms of this Section</p> <p>The Contractor shall obtain a copies of the said specifications from the South African Bureau of Standards and be kept on site at all times</p> <p><b><u>Measurement and payment</u></b></p> <p>Measurement and payment clauses as described in the above-mentioned SANS 1200 Specifications shall not apply to the work as set out in this Bill</p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><b><u>NOTE</u></b></p> <p>All prices/rates to be net, excluding Value Added Tax</p>			
	<p style="text-align: right;"><b>Carried to Collection</b></p>		R	
	<p>Section No. 3  Bill No 1 - Fencing  <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Filling material (General)</u></b></p> <p>It will be, at all times, required from the Contractor to apply and execute strict quality control on all filling material used</p> <p>Samples of potential fill materials obtained from excavations, trench excavations, etc. are to be submitted to and approved by the Engineer prior the re-use thereof as <b>"filling"</b></p> <p>All filling obtained from a commercial source should comply to a minimum G6 standard and to be approved by Engineer before haulage to site.</p> <p>Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported.</p> <p>Filling in general shall be compacted to the prescribed percentage Mod AASHTO density</p> <p><b><u>Filling to form earth mattresses, in sub-layers, under floors, etc</u></b></p> <p>All filling in layers under surface beds, in sub-layers, to form earth mattresses, etc. shall be done with materials specified and according to methods prescribed by the SABS 1200ME Sub-base Specification.</p> <p>The aforesaid specification was drawn up to cover activities normally encountered on civil engineering work, which is equally applicable on the filling details and requirements prescribed for this project</p> <p>The said specification, although not issued with, shall be regarded to form part of these Bills of Quantities. The Contractor shall obtain a copy of the said specification from the South African Bureau of Standards and be kept on site at all times</p>			
	<p style="text-align: right;"><b>Carried to Collection</b></p>		R	
	<p>Section No. 3 Bill No 1 - Fencing <b>PROVISIONAL BILLS OF QUANTITIES</b></p>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p><b><u>CBR and Indicator tests</u></b></p> <p>Density tests for monitoring filling shall be done at the minimum prescribed frequencies per each 150mm thick layer of filling placed.</p> <p>The Contractor is to note that all necessary tests (i.e CBR and indicator tests, etc) are to be conducted for all filling material, whether obtained from the excavations or to be imported from an approved commercial source.</p> <p>Results of these tests are to be submitted to and approved by Engineer prior commencement of any placement thereof and/or filling done therewith</p> <p><b><u>Density test</u></b></p> <p>It will be required from the Contractor to execute density tests for monitoring filling at the following minimum frequencies per each filling layer placed:</p> <p><b>- Filling under surface beds</b> 1 Test per 25m<sup>2</sup> plan area per each 150mm thick layer</p> <p><b>- Filling behind retaining walls:</b> 1 Test per each 10m length of retaining wall</p> <p>Results of density test executed are to be submitted to and approval obtained from the Engineer prior commencement of any subsequent fill layers and/or other work</p>			
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 3 Bill No 1 - Fencing <b>PROVISIONAL BILLS OF QUANTITIES</b></p>		R	

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

<p><b><u>Carting away of excessive and/or unsuitable excavated material</u></b></p> <p>Descriptions for "carting away excessive or unsuitable excavated material from site" shall be deemed to include the loading and hauling of excessive or unsuitable excavated material to a suitable dumping site, which has to be located by the Contractor, off the hospital premises</p> <p>The location of the intended dumping site will be subjected to the prior written approval of the local authority (Municipality)</p> <p>All materials for excavations marked for caring away shall be cart at Municipal designated dumping site and proof of dumping to be submitted to the Safety / Enviromental officer</p> <p>The contractor will also be liable to remove upon completion, rehabilitate all those areas of the dumping site used for dumping/spoiling by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the Engineer/Principal Agent</p> <p>Tendered rates must make provision for the above-mentioned as no additional claims in this regard will afterwards be entertained</p> <p><b><u>NOTE: All materials from excavations marked from carting away shall be cart at Municipal designated dumping site and proof of dumping to be submitted to the Safety / Enviromental officer</u></b></p> <p><b><u>FOUNDATIONS</u></b></p> <p><b><u>Excavate in earth below natural ground level, reduced or made up ground level, not exceeding 2m deep, for:</u></b></p>					
1	Trenches	m3	19		
2	Holes	m3	16		
<b>Carried to Collection</b>				R	
<p>Section No. 3 Bill No 1 - Fencing <b>PROVISIONAL BILLS OF QUANTITIES</b></p>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>				
3	Soft rock	m3	2		
4	Hard rock	m3	1		
	<b><u>Extra over all excavations for carting away</u></b>				
5	Surplus or unwanted excavated material to stock piles on site or to a dumping site to be located by the contractor	m3	19		
	<b><u>Risk of collapse of excavations</u></b>				
6	Sides of trench excavations not exceeding 1,5m deep	m2	193		
	<b><u>Keeping excavations free of water</u></b>				
7	Allow for bailing, pumping or otherwise keeping all excavations free from water		Item		
	<b><u>Earth filling obtained from the excavations compacted to 93% Mod AASHTO density</u></b>				
8	In backfilling to trenches, holes, etc	m3	15		
	<b><u>Mass concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u></b>				
9	In base for post, with chamfered top surface projecting 50mm above surrounding ground level, sufficiently vibrated.	m3	19		
10	In ground beams, with chamfered top surface projecting 50mm above surrounding ground level, sufficiently vibrated.	m3	19		
	<b><u>Rough formwork to post foundations</u></b>				
11	Formwork to sides of bases set into trenches	m2	97		
12	Formwork to sides of ground beams set into trenches	m2	193		
	<b><u>METALWORK</u></b>				
<b>Carried to Collection</b>				R	
Section No. 3 Bill No 1 - Fencing <b>PROVISIONAL BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

	<p><b><u>Invisible mesh security fencing including site clearance and preparation of ground, to match existing</u></b></p>			
13	<p>Security fencing panels 3305mm wide and 2500mm high above ground level with panel apertures size 76.2 x 12.7mm with wire diameter 3mm, the panel shall be reinforced with 4 x 50mm deep 'V' formation horizontal recessed bands (rigidly). Panels shall have 2 x 70 degrees flanges along sides and 1 x 90 degrees flange along top and 1 x 30 degrees flange along toe, the post shall have a flush panel post finish with no climbing aid. The panel shall be affixed to a post over 48 line wires using 8 x double bolt comb clamps and 8 x single bolt comb clamps using 24 x Anti vandal bolts. Posts shall be 3000mm high taper locking posts including locking recess mechanism to secure panel edge. Posts shall be sealed with a UV stabilised polymer cap, panels and posts finish shall be galvanised, then marine fusion bond coated. The fence shall be planted into concrete (elsewhere measured)</p>	m	322	
14	<p>Galvanised anti-burrow fencing 500mm high below ground level, secured into concrete for posts and haunching of 200 x 200 x 200mm at 1000mm centres maximum, of ref 3510 - 3D mesh panels fabricated from absel with a strength of 60% and a tensile strength of 500N/mm<sup>2</sup>, with core diameter of 3mm and a tolerance of 0.07mm, including trench, backfilling and compacting.</p>	m	322	
15	<p>Galvanised and marine fusion bond coated anti-climb structure spiked rail bolted to invisible fence mesh flang along fence top.</p>	m	322	
16	<p>Galvanised and marine fusion bond coated security sliding gate 4000 x 3000mm high formed of 100 x 75 x 3mm frame with 2No. middle vertical and 1No. horizontal rail. Fencing mesh similar to main fence to be secured to gate frame with fixators. Sliding system to be of 2No 100 x 100 x 3mm vertical posts set into and including 20Mpa concrete. 14m of 50 x 50 x 3mm galvanised angle iron with 12mm diameter R12 reinforcing bar welded onto angle iron, with fixing lugs of 25 x 25 x 5mm flat bar at maximum 350mm, set into and including 20Mpa concrete. Top to have powder-coated anti-climb security spiked rail.</p>	No	2	
	<p style="text-align: center;"><b>Carried to Collection</b></p>			R
	<p>Section No. 3</p>			
	<p>Bill No 1 - Fencing</p>			
	<p><b>PROVISIONAL BILLS OF QUANTITIES</b></p>			

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

17	<p>Galvanised and marine fusion bond coated security swing pedestrian gate 1500 x 3000mm high formed of 100 x 75 x 3mm frame with 2No. horizontal rails. Fencing mesh similar to main fence to be secured to gate frame with fixators. Posts system to be of 2No 100 x 100 x 3mm vertical posts set into and including 20Mpa concrete. Top to have powder-coated anti-climb security spiked rail. Gate to have approved locking mechanism</p> <p style="text-align: right;">No</p>	2			
	<b>Carried to Collection</b>		R		
	<p>Section No. 3 Bill No 1 - Fencing <b>PROVISIONAL BILLS OF QUANTITIES</b></p>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR RUTH  
SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

Section No. 3				
Bill No. 1				
Bill No 1 - Fencing				
<b><u>COLLECTION</u></b>				
	<b>Page No</b>		<b>Amount</b>	
Total Brought Forward from Page No.	165			
Total Brought Forward from Page No.	166			
Total Brought Forward from Page No.	167			
Total Brought Forward from Page No.	168			
Total Brought Forward from Page No.	169			
Total Brought Forward from Page No.	170			
Total Brought Forward from Page No.	171			
Total Brought Forward from Page No.	172			
Total Brought Forward from Page No.	173			
Total Brought Forward from Page No.	174			

**Carried to Final Summary**

R

Section No. 3  
Bill No 1 - Fencing

**PROVISIONAL BILLS OF QUANTITIES**



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 4**

**BOQ No.1: Preliminary & General**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>1.1</b>	<b><u>SITE ESTABLISHMENT &amp; ADMIN COSTS</u></b> a) Site Office (Camp and Fencing) & Store b) Site Personnel (including security) & Supervisory Staff c) Transport (staff). d) Insurances & Surety/Bank guarantee. e) Running costs e.g. electricity, water, telephone, printing, etc.	Lot	N/A		N/A
<b>1.2</b>	<b><u>GENERAL COSTS</u></b>				
1.2.1	Ensure full compliance with all the requirements of the Health and Safety (H&S) Undertaking. Including, but not limited to, that all work shall be carried out strictly in accordance with the relevant OHS Act requirements; weekly H&S meetings and H&S site file that is always on site and kept up to date.	Lot	N/A		N/A
1.2.2	Critical path schedule, contract programme, including weekly updating and attending two weekly site meetings.	Lot	N/A		N/A
<b>1.3</b>	<b><u>DISPOSAL OF REDUNDANT MATERIAL</u></b>				
1.3.1	The Contractor shall make provision for the safe disconnection, removal, loading, transport and safe disposal of all redundant materials inclusive of distribution boards, switchgear, cable, conduit, wire channel, small power outlets, luminaires, lamps and electrical sundry materials in accordance with standard safe practices.	Lot	N/A		N/A
1.3.2	The Contractor shall obtain a Safe Disposal Certificate from a <u>registered</u> hazardous waste site as confirmation of the safe disposal of all flourescent lamps identified as been redundant. The certificate shall indicate the waste type, volume and hazardous waste site used.	Lot	N/A		N/A
<b>1.4</b>	<b><u>SITE CLEAN-UP</u></b> <i>Clean-up of the construction site after completion of the Works, to the satisfaction of both the Engineer and the Client.</i>	Lot	N/A		N/A
<b>CARRIED FORWARD TO ITEM 1 - SUMMARY FOR BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 4**

**BOQ No.4: Small Power Installations**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>4.1</b>	<b><u>STANDARD REGULATIONS AND CODES OF PRACTICE</u></b> All low voltage electrical small power installation work associated with this project shall be in accordance with the latest SANS Codes of Practice 10142-1 and in conjunction with: <i>Occupational Health and Safety Act of 1993</i> <i>Manufacturer's Specifications and Installation Instructions</i> <i>Industry Standard Good Practices</i>				
<b>4.2</b>	<b><u>POWER &amp; LIGHTING OUTLETS - INSPECTION &amp; TESTING</u></b> Allowance shall be made for the inspection, testing and labelling of all existing and/or new small power and lighting appliance installations, to ensure electrical operation, integrity and compliance. All switched socket outlets, switched disconnectors (isolators), luminaire outlets and light switches shall be opened; cleaned out of any debris; terminations checked to ensure sound connection (T-type ferrules to be used) and securely closed. All switched socket outlets, switched disconnectors (isolators) and light switches shall be correctly labelled with the distribution board (name) and circuit breaker (number) it is being fed from [i.e. DB...CB...] <b><u>AREA # 01 (MV / LV / Generator / Workshop / Guard House)</u></b>				
<b>4.2.1</b>	<b><u>MV / Transformer Room</u></b> a) Open, inspect and test - switched socket outlets b) Open, inspect and test - light switches c) Open, inspect and test - luminaires d) Label - socket outlets / light switches / Isolators e) Signage - transformer doors	No No No Lot Lot	2 2 4 1 1		
<b>4.2.2</b>	<b><u>LV / Generator Room</u></b> a) Open, inspect and test - switched socket outlets b) Open, inspect and test - light switches c) Open, inspect and test - luminaires d) Label - socket outlets / light switches / Isolators	No No No Lot	4 2 5 1		
<b>4.2.3</b>	<b><u>Workshop</u></b> a) Open, inspect and test - switched socket outlets b) Open, inspect and test - 3ph industrial plugs c) Open, inspect and test - light switches d) Open, inspect and test - luminaires e) Label - socket outlets / light switches / Isolators	No No No No Lot	20 6 8 12 1		
<b>4.2.4</b>	<b><u>Guard House</u></b> a) Open, inspect and test - switched socket outlets b) Open, inspect and test - light switches c) Open, inspect and test - luminaires d) Label - socket outlets / light switches / Isolators	No No No Lot	2 2 4 1		
	<b>Carried Forward to NEXT PAGE</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 4**

**BOQ No.4: Small Power Installations**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
	<b><u>AREA # 02</u></b> (Out-Patient Department & Pharmacy)				
4.2.5	<b><u>Out-Patient Department</u></b>				
	a) Open, inspect and test - switched socket outlets	No	40		
	b) Open, inspect and test - light switches	No	30		
	c) Open, inspect and test - luminaires	No	120		
	d) Replace faulty single switched socket outlets.	No	10		
	e) Label - socket outlets / light switches / Isolators	Lot	1		
4.2.6	<b><u>Pharmacy</u></b>				
	a) Open, inspect and test - switched socket outlets	No	15		
	b) Open, inspect and test - light switches	No	8		
	c) Open, inspect and test - luminaires	No	30		
	d) Replace faulty single switched socket outlets.	No	5		
	e) Supply & install double switched socket outlets.	No	40		
	f) Label - socket outlets / light switches / Isolators	Lot	1		
	<b><u>AREA # 03</u></b> (Theatres & X-Ray)				
4.2.7	<b><u>Theatre 1</u></b>				
	a) Open, inspect and test - switched socket outlets	No	10		
	b) Open, inspect and test - light switches	No	2		
	c) Open, inspect and test - luminaires	No	6		
	d) Label - socket outlets / light switches / Isolators	Lot	1		
4.2.8	<b><u>Theatre 2</u></b>				
	a) Open, inspect and test - switched socket outlets	No	10		
	b) Open, inspect and test - light switches	No	2		
	c) Open, inspect and test - luminaires	No	6		
	d) Label - socket outlets / light switches / Isolators	Lot	1		
4.2.9	<b><u>Theatre Recovery</u></b>				
	a) Open, inspect and test - switched socket outlets	No	10		
	b) Open, inspect and test - light switches	No	2		
	c) Open, inspect and test - luminaires	No	6		
	d) Label - socket outlets / light switches / Isolators	Lot	1		
4.2.10	<b><u>Theatre General</u></b>				
	a) Open, inspect and test - switched socket outlets	No	25		
	b) Open, inspect and test - light switches	No	15		
	c) Open, inspect and test - luminaires	No	20		
	d) Label - socket outlets / light switches / Isolators	Lot	1		
4.2.11	<b><u>X-Ray</u></b>				
	a) Open, inspect and test - switched socket outlets	No	15		
	b) Open, inspect and test - light switches	No	5		
	c) Open, inspect and test - luminaires	No	12		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 4**

**BOQ No.4: Small Power Installations**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
	d) Replace faulty single switched socket outlets.	No	5		
	e) Label - socket outlets / light switches / Isolators	Lot	1		
	<b><u>AREA # 04</u> (Admin / Burns &amp; High Care Ward)</b>				
4.2.12	<b><u>Administration</u></b>				
	a) Open, inspect and test - switched socket outlets	No	35		
	b) Open, inspect and test - light switches	No	20		
	c) Open, inspect and test - luminaires	No	40		
	d) New powerskirting (2-Tier)	M	20		
	e) New socket outlets in new powerskirting c/w wiring	No	25		
	f) Label - socket outlets / light switches / Isolators	Lot	1		
4.2.13	<b><u>Burns and High Care Ward</u></b>				
	a) Open, inspect and test - switched socket outlets	No	30		
	b) Open, inspect and test - light switches	No	25		
	c) Open, inspect and test - luminaires	No	30		
	d) Supply & install additional new powerskirting (1-Tier)	M	50		
	e) New socket outlets in new powerskirting c/w wiring	No	24		
	f) New inspection luminaire light switches in powerskirting c/w wiring	No	12		
	g) Re-route socket outlet circuits to new UPS DB	No	6		
	h) Re-route light circuits to new UPS DB	No	2		
	i) Label - socket outlets / light switches / Isolators	Lot	1		
	<b><u>AREA # 05</u> (Surgical &amp; Medical Wards)</b>				
4.2.14	<b><u>Surgical Ward-Female</u></b>				
	a) Open, inspect and test - switched socket outlets	No	30		
	b) Open, inspect and test - light switches	No	15		
	c) Open, inspect and test - luminaires	No	30		
	d) Label - socket outlets / light switches / Isolators	Lot	1		
4.2.15	<b><u>Surgical Ward-Male</u></b>				
	a) Open, inspect and test - switched socket outlets	No	30		
	b) Open, inspect and test - light switches	No	15		
	c) Open, inspect and test - luminaires	No	30		
	d) Label - socket outlets / light switches / Isolators	Lot	1		
	<b><u>AREA # 06</u> (Paediatric Wards)</b>				
4.2.16	<b><u>Paediatric - Ground Floor</u></b>				
	a) Open, inspect and test - switched socket outlets	No	28		
	b) Open, inspect and test - light switches	No	18		
	c) Open, inspect and test - luminaires	No	30		
	d) Open, inspect and test - aircon isolators	No	4		
	e) Supply & install additional new powerskirting (1-Tier)	M	75		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 4**

**BOQ No.4: Small Power Installations**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
4.2.17	f) New socket outlets in new powerskirting	No	32		
	f) New inspection luminaire light switches in powerskirting	No	16		
	g) Label - socket outlets / light switches / Isolators	Lot	1		
	<u><b>Paediatric - First Floor</b></u>				
	a) Open, inspect and test - switched socket outlets	No	28		
	b) Open, inspect and test - light switches	No	18		
	c) Open, inspect and test - luminaires	No	30		
	d) Open, inspect and test - aircon isolators	No	4		
	e) Supply & install additional new powerskirting (1-Tier)	M	75		
	f) New socket outlets in new powerskirting	No	36		
4.2.18	f) New inspection luminaire light switches in powerskirting	No	21		
	g) Label - socket outlets / light switches / Isolators	Lot	1		
	<u><b>AREA # 07 (Psychiatric &amp; TB Ward)</b></u>				
	<u><b>Psychiatric Ward</b></u>				
	a) Open, inspect and test - switched socket outlets	No	25		
	b) Open, inspect and test - light switches	No	17		
	c) Open, inspect and test - luminaires	No	35		
	d) Open, inspect and test - aircon isolators	No	4		
	d) Label - socket outlets / light switches / Isolators	Lot	1		
	<u><b>TB Ward</b></u>				
4.2.19	a) Open, inspect and test - switched socket outlets	No	60		
	b) Open, inspect and test - light switches	No	40		
	c) Open, inspect and test - luminaires	No	80		
	d) Label - socket outlets / light switches / Isolators	Lot	1		
	<u><b>AREA # 08 (Maternity Ward)</b></u>				
	<u><b>Maternity Ward</b></u>				
	a) Open, inspect and test - switched socket outlets	No	30		
	b) Open, inspect and test - light switches	No	15		
	c) Open, inspect and test - luminaires	No	40		
	d) Label - socket outlets / light switches / Isolators	Lot	1		
4.2.21	<u><b>Delivery Ward</b></u>				
	a) Open, inspect and test - switched socket outlets	No	10		
	b) Open, inspect and test - light switches	No	8		
	c) Open, inspect and test - luminaires	No	12		
	d) Label - socket outlets / light switches / Isolators	Lot	1		
	<u><b>Neonatal ICU</b></u>				
	a) Re-route socket outlet circuits to new UPS DB	No	9		
	b) Re-route light circuits to new UPS DB	No	2		
	c) Label - socket outlets / light switches / Isolators	Lot	1		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 4**

**BOQ No.4: Small Power Installations**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
	<b><u>AREA # 09</u></b> (Mortuary / Kitchen, & Laundry)				
4.2.23	<b><u>Mortuary</u></b>				
	a) Open, inspect and test - switched socket outlets	No	15		
	b) Open, inspect and test - light switches	No	8		
	c) Open, inspect and test - luminaires	No	16		
	d) Label - socket outlets / light switches / Isolators	Lot	1		
4.2.25	<b><u>Kitchen</u></b>				
	a) Open, inspect and test - switched socket outlets	No	10		
	b) Open, inspect and test - light switches	No	10		
	c) Open, inspect and test - luminaires	No	55		
	d) Open, inspect and test - kitchen unit isolators	No	10		
	e) Replace 60A 3-pole kitchen unit isolators	No	4		
	f) Rectify wiring to isolators	Lot	1		
	g) Supply & install new double switched socket outlets c/w conduit, wireways and wiring.	No	20		
	h) Label - socket outlets / light switches / Isolators	Lot	1		
4.2.26	<b><u>Laundry</u></b>				
	a) Open, inspect and test - switched socket outlets	No	12		
	b) Open, inspect and test - light switches	No	6		
	c) Open, inspect and test - luminaires	No	16		
	d) Open, inspect and test - isolators	No	4		
	e) Rectify 3-ph isolators incorrectly connected	No	2		
	f) Label - socket outlets / light switches / Isolators	Lot	1		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 4**

**BOQ No.4: Small Power Installations**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
<b>4.3</b>	<p><b><u>POWER &amp; LIGHTING - INSTALLATION ACCESSORIES</u></b></p> <p>Allowance shall be made for the supply, replace and installation of small power &amp; lighting appliances and accessories as may be specified below.</p> <p>The tendered rates used in this portion of the bills of quantities shall be applied as follows:</p> <p>a) <u>Supply</u> : Tendered rate for the supply of the specified item's measured unit quantity to be installed.</p> <p>b) <u>Replace</u> : Tendered rate for the supply of the specified item's measured unit quantity to be installed, and shall include full compensation for the removal of the existing item to be replaced.</p> <p>c) <u>Install</u> : Tendered rate for the installation of the specified item's measured unit quantity.</p> <p><b><u>BEDHEAD SERVICE SYSTEMS</u></b></p> <p>Bedhead service systems of the Micro Nurse Call/Cabmed Medical range/s, or equivalent and approved. Bed head trunking shall be anodized aluminum (minimum 10 microns), horizontal surface wall mounted c/w small power outlets, luminaires, medical gas outlets, covers, splices, end caps, mounting fixtures and accessories.</p> <p>The following services shall be provided per Bed/Patient:</p> <p><u>Illumination</u> :</p> <p>1 x 18W Fluorescent Reading Light c/w switch</p> <p><u>Power</u> :</p> <p>2 x 16A SSO (Red - Illuminated Switch Toggle)</p> <p>1 x 16A 3-pin Euro SSO (White Switch Toggle)</p> <p><u>Medical Gas Outlets</u> :</p> <p>1 x Oxygen</p> <p>1 x Vacuum</p> <p>1 x Medical Air Low Pressure</p> <p><u>Medical Rail</u></p> <p>1 x 300mm Grabber</p> <p><u>Nurse Call</u> :</p> <p>1 x Bed Unit (supplied by others)</p> <p>1 x Patient Handset Unit (supplied by others)</p>				
4.3.1	3-Bed Unit (4.5m length)				
	a) Supply	No	2		
	b) Install	No	2		
4.3.2	2-Bed Unit (3.0m length)				
	a) Supply	No	4		
	b) Install	No	4		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 4**

**BOQ No.4: Small Power Installations**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
4.3.3	1-Bed Unit (1.5m length)				
	a) Supply	No	6		
	b) Install	No	6		
4.3.4	Vertical Riser (2.5m length)				
	a) Supply	No	12		
	b) Install	No	12		
	<b><u>POWERSKIRTING / WIRING DUCT</u></b>				
	Powerskirting of the O-Line Multiskirt range and Wiring Duct of the Cabstrut, or equivalent and approved. Surface wall mounted and/or suspended in ceiling void, c/w all elbows, tees, covers, splices, end caps, mounting fixtures, adaptors, clamps, hangers and accessories.				
4.3.5	MS1 - Powerskirting (1-Tier)				
	a) Replace	M	75		
	b) Install	M	75		
4.3.6	MS2 - Powerskirting (2-Tier)				
	a) Replace	M	75		
	b) Install	M	75		
4.3.7	P2000 - Wiring Duct				
	a) Replace	M	75		
	b) Install	M	75		
4.3.8	P8000 - Wiring Duct				
	a) Replace	M	50		
	b) Install	M	50		
4.3.9	PVC 76 x 41mm - Wiring Duct				
	a) Replace	M	50		
	b) Install	M	50		
	<b><u>CONDUIT &amp; GENERAL PURPOSE CABLE</u></b>				
	Conduit, as may be required, to be surface mounted onto concrete/brickwork, c/w all jointing, short lengths, wall boxes, couplings, bends, conduit boxes, loop-in boxes, saddles and mounting accessories.				
4.3.10	20mm - PVC				
	a) Supply	M	2400		
	b) Replace	M	300		
	c) Install	M	2700		
4.3.11	25mm - PVC				
	a) Supply	M	3000		
	b) Replace	M	600		
	c) Install	M	3600		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 4**

**BOQ No.4: Small Power Installations**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
4.3.12	20mm - Galvanised				
	a) Supply	M	750		
	b) Replace	M	150		
	c) Install	M	900		
	Single core; 600/1000V rated; high conductivity annealed stranded copper conductors to SANS 1411-1; PVC insulated to SANS 1411-2; manufactured to SANS 1507-3; as may be drawn in powerskirting, wiring duct, conduit and/or sleeves:				
4.3.13	4mm² PVC insulated stranded Cu				
	a) Supply	M	5000		
	b) Replace	M	2250		
	c) Install	M	7250		
4.3.14	2.5mm² PVC insulated stranded Cu				
	a) Supply	M	6000		
	b) Replace	M	2250		
	c) Install	M	8250		
4.3.15	2.5mm² PVC insulated stranded Cu (Earth - Yellow/Green)				
	a) Supply	M	6050		
	b) Replace	M	2475		
	c) Install	M	8525		
	<b><u>SMALL POWER - Powerskirting Mounted Appliances</u></b>				
	Indoor appliance outlets mounted on power skirting complete with covers, mounting and fixing accessories:				
	<u>Switched Socket Outlets; 250Vac; Indoor IP20</u>				
4.3.16	16A Single, ( <u>White</u> )				
	a) Replace	No	2		
	b) Install	No	2		
4.3.17	16A Single, ( <u>Red</u> , flat earth pin)				
	a) Replace	No	10		
	b) Install	No	10		
	<b><u>SMALL POWER - Surface/Flush Mounted Appliances</u></b>				
	Appliance outlets flush and/or surface wall mounted, c/w wall boxes, cover plates, mounting and fixing accessories:				
	<u>Switched Socket Outlet (100x100); 250Vac; Indoor IP20</u>				
4.3.18	16A Single, ( <u>Red</u> , flat earth pin)				
	a) Replace	No	30		
	b) Install	No	30		
4.3.19	16A Single + Slimline Euro, (White)				
	a) Replace	No	258		
	b) Install	No	258		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 4**

**BOQ No.4: Small Power Installations**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
4.3.20	16A Double, (White)				
	a) Replace	No	22		
	b) Install	No	22		
	<u>Switch Disconnecter (100x100); 250Vac; Indoor IP20</u>				
4.3.21	20A Double Pole, (White)				
	a) Replace	No	10		
	b) Install	No	10		
4.3.22	30A Double Pole, (White)				
	a) Replace	No	30		
	b) Install	No	30		
4.3.23	60A Triple Pole with suitable enclosure, (White)				
	a) Replace	No	19		
	b) Install	No	19		
	<u>Light Switches (50x100); 250Vac; Indoor IP20</u>				
4.3.24	16A 1- Lever, 1-Way				
	a) Replace	No	150		
	b) Install	No	150		
4.3.25	16A 2-Lever, 1-Way				
	a) Replace	No	30		
	b) Install	No	30		
4.3.26	16A 1-Lever, 2-Way				
	a) Replace	No	30		
	b) Install	No	30		
4.3.27	16A Dimmer 1-Lever, 1-Way				
	a) Replace	No	2		
	b) Install	No	2		
	<u>Motion Sensor; 360°, 250Vac; Indoor IP20</u>				
4.3.28	Motion Sensor				
	a) Supply	No	4		
	b) Install	No	4		
	<b><u>SMALL POWER - Fixed Appliance Connections</u></b>				
	Fixed appliance connections c/w galvanised sprague, single core stranded copper conductors, mounting and fixing accessories:				
4.3.29	Single Phase Connection (3 off 4m length 6mm <sup>2</sup> conductors)				
	a) Replace	No	10		
	b) Install	No	10		
4.3.30	Three Phase Connection (5 off 4m length 6mm <sup>2</sup> conductors)				
	a) Replace	No	19		
	b) Install	No	19		
<b>CARRIED FORWARD TO ITEM 4 - SUMMARY FOR BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 4**

**BOQ No.2: Compliance Certification (SANS 10142)**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>2.1</b>	<b><u>STANDARD REGULATIONS AND CODES OF PRACTICE</u></b> The Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) (OHS Act), which is administered by the Chief Inspector of Occupational Health and Safety of the Department of Labour, requires that electrical installations comply with the requirements of SANS 10142-1. It also requires that a registered person, as defined (master installation electrician, installation electrician or electrical tester for single phase), will issue a Certificate of Compliance together with a test report. The certificate shall be in the form of the Certificate of Compliance published in the Electrical Installation Regulations, 2012, and the test report shall be in the form of the test report as per SANS 10142.				
<b>2.2</b>	<b><u>SPECIALIST SUB-CONTRACTOR (MASTER ELECTRICIAN)</u></b>				
2.2.1	The Contractor shall make allowance for supervision of the electrical repair/installation works by a certificated master electrician, as pertaining to specialist medical locations (theatres, high care units, wards, etc.) and as detailed below:  a) Supervisory works for duration of project  b) Travelling  c) Accommodation	Hrs Km Days	60 3000 10		
2.2.2	On receiving confirmation from the Client that the electrical works is complete, the Contractor shall make allowance for the return to site of the master electrician to conduct all necessary inspections and testing in order to issue valid Certificates of Compliance , as pertaining to specialist medical locations (theatres, high care units, wards, etc.) and as detailed below.  Inspection, testing and commissioning of electrical installations as specified above:  a) Theatres - <i>Master Electrician</i>  b) Neonatal High Care Unit - <i>Master Electrician</i>  b) Normal Hospital Accommodation - <i>Installation Electrician</i>  c) Travelling  d) Accommodation	No No No Km Days	2 1 27 600 3		
2.2.3	Compilation of electrical as-build drawings of the complete hospital complex, and as indicated below:  a) Electrical distribution network diagram  b) Electrical distribution board single-line diagrams  c) LV small power; indoor & outdoor lighting layout drawings	Lot No Lot	1 30 1		
2.2.4	Certificates of Compliance for the complete works as per SANS 10142-1.	Lot	1		
<b>CARRIED FORWARD TO ITEM 2 - SUMMARY FOR BILLS OF QUANTITIES</b>					

**Section 4**

**BOQ No.3: Distribution Boards**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>3.1</b>	<p><b><u>STANDARD REGULATIONS AND CODES OF PRACTICE</u></b></p> <p>All low voltage electrical distribution board installation work associated with this project shall be in accordance with the latest SANS Codes of Practice 10142-1 and in conjunction with:</p> <p><i>Occupational Health and Safety Act of 1993</i>  <i>Manufacturer's Specifications and Installation Instructions</i>  <i>Industry Standard Good Practices</i></p>				
<b>3.2</b>	<p><b><u>GENERAL OVERVIEW</u></b></p> <p>Allowance shall be made for the installation, servicing, repairing and/or maintenance of all existing and/or new distribution boards as specified below, as a minimum.</p>				
<b>3.2.1</b>	<p><b><u>Servicing of Existing Distribution Boards</u></b></p> <p>Allow for the comprehensive servicing of the distribution board which shall include for the opening of the distribution board; internal cleaning of the enclosure; cleaning of equipment and meters; removal of obsolete distribution board equipment; re-arrangement of equipment and wiring; treatment of the enclosure for moisture ingress and corrosion; vermin protection; tightening of all terminals on switchgear, neutral / earth bars and replacement of non-compliant wiring where required.</p> <p><u>Note:</u> All circuit breaker bridge-piece conductors shall be of the correct phase colour coding and 16mm<sup>2</sup> in size (minimum).</p>				
<b>3.2.2</b>	<p><b><u>Circuit Verification &amp; Electrical Integrity of Existing D/Boards</u></b></p> <p>Allow for the comprehensive visual inspection and operational testing of the distribution board circuits (inclusive of power, protection &amp; control switchgear and components), in conjunction with, the tracing and labelling (traffolyte) of all outgoing circuits and ratifying of conductor phase colour-coding , in order to verify the electrical integrity and compliance of the circuits within the DB's area of distribution.</p>				
<b>3.2.3</b>	<p><b><u>New Distribution Boards</u></b></p> <p>New enclosures shall be powder coated, have a minimum IP35 rating (indoors), IP65 rating (outdoors) and be c/w steelwork, frames, sub-frames, chassis, covers and lockable doors.</p> <p>New distribution switchboards shall be of the specified enclosure, factory equipped and wired c/w power and control switchgear, busbars, internal wiring, auxillary equipment, fixing accessories, labelling, signage and allowance for 30% spare capacity.</p>				
<b>3.2.4</b>	<p><b><u>Distribution Board LV Switchgear</u></b></p> <p>All new low voltage switchgear required to be installed, in existing and/or new distribution board enclosures, shall be of the CBI range, or equivalent and approved.</p>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.3: Distribution Boards

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>3.3</b>	<b><u>DISTRIBUTION BOARDS</u></b> All distribution boards shall be either installed, serviced, repaired and/or maintained such that after final inspection and testing, an electrical certificate of compliance may be issued.				
<b>3.3.1</b>	<b><u>DK # 01</u></b> <i>Outdoor * Plinth Mounted</i>				
	a) Service distribution kiosk	Lot	1		
	b) Circuit verification & tracing # fifteen circuits	No	15		
	c) Traffolyte circuit labels # fifteen circuits	No	15		
	d) Traffolyte kiosk labels # kiosk "Name" and "Fed from..."	Lot	1		
	e) Install flash barriers on all circuit breakers	Lot	1		
	f) Kiosk legend card	No	1		
	g) Conduct infrared scan on board on completion of works	Lot	1		
	h) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
<b>3.3.2</b>	<b><u>DK # 02</u></b> <i>Outdoor * Plinth Mounted</i>				
	a) Service distribution kiosk	Lot	1		
	b) Circuit verification & tracing # eight circuits	No	8		
	c) Traffolyte circuit labels # eight circuits	No	8		
	d) Traffolyte kiosk labels # kiosk "Name" and "Fed from..."	Lot	1		
	e) Install flash barriers on all circuit breakers	Lot	1		
	f) Kiosk legend card	No	1		
	g) Door hinges to be replaced	Lot	1		
	h) Inner cover plate to be installed	Lot	1		
	i) Conduct infrared scan on board on completion of works	Lot	1		
	j) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
<b>3.3.3</b>	<b><u>DK # 03</u></b> <i>Outdoor * Plinth Mounted</i>				
	a) Replace distribution kiosk enclosure	Lot	1		
	b) Existing distribution switchgear and equipment to be serviced and re-installed in new enclosure c/w new circuit wiring.	Lot	1		
	b) Circuit verification & tracing # fifteen circuits	No	10		
	c) Traffolyte circuit labels # fifteen circuits	No	10		
	<i>Carried Forward to NEXT PAGE</i>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.3: Distribution Boards

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
3.3.4	e) Traffolyte kiosk labels # kiosk "Name" and "Fed from..."	Lot	1		
	f) Install flash barriers on all circuit breakers	Lot	1		
	g) Kiosk legend card	No	1		
	h) Conduct infrared scan on board on completion of works	Lot	1		
	i) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
	<b>DK # 04</b>				
	<i>Outdoor * Plinth Mounted</i>				
	a) Service distribution kiosk	Lot	1		
	b) Circuit verification & tracing # twelve circuits	No	12		
	c) Traffolyte circuit labels # twelve circuits	No	12		
	d) Traffolyte kiosk labels # kiosk "Name" and "Fed from..."	Lot	1		
	e) Install flash barriers on all circuit breakers	Lot	1		
	f) Kiosk legend card	No	1		
	g) Door hinges to be replaced	Lot	1		
	h) Rectify inner covers # latching mechanisms & circuit breaker cut-outs	Lot	1		
	i) Conduct infrared scan on board on completion of works	Lot	1		
	j) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
	<b>DK # 05</b>				
	<i>Outdoor * Plinth Mounted</i>				
3.3.5	a) Replace distribution kiosk enclosure	Lot	1		
	b) Existing distribution switchgear and equipment to be serviced and re-installed in new enclosure c/w new circuit wiring.	Lot	1		
	b) Circuit verification & tracing # twelve circuits	No	12		
	c) Traffolyte circuit labels # twelve circuits	No	12		
	e) Traffolyte kiosk labels # kiosk "Name" and "Fed from..."	Lot	1		
	f) Install flash barriers on all circuit breakers	Lot	1		
	g) Kiosk legend card	No	1		
	h) Conduct infrared scan on board on completion of works	Lot	1		
	i) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				

## Section 4

## BOQ No.3: Distribution Boards

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from PREVIOUS PAGE</i>				
<b>3.4</b>	<b><u>DISTRIBUTION BOARDS</u></b> All distribution switchboards shall be either installed, serviced, repaired and/or maintained such that after final inspection and testing, an electrical certificate of compliance may be issued.				
3.4.1	<b><u>DB # 01 (LT Room * Main LT Board)</u></b> <i>Indoor * Floor Standing</i> a) Service distribution board b) Circuit verification & tracing # twenty-eight circuits c) Traffolyte circuit labels # twenty-eight circuits d) Traffolyte DB labels # DB "Name" and "Fed from..." e) Install flash barriers on all circuit breakers f) DB legend card g) Balance loads over all three phases h) Conduct infrared scan on board on completion of works i) LT Room main earth point to be serviced <i>Allow for disconnecting all terminations; clean and sand busbar surface; install new termination bolts and nuts (10 off) c/w spring washers &amp; flat washers; reconnect all terminations</i> j) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot No No Lot Lot No Lot Lot Lot	1 28 28 1 1 1 1 1 1		
3.4.2	<b><u>DB # 02 (LT Room * DB-UPS)</u></b> <i>Indoor * Surface Mounted</i> a) Supply and install new UPS surface-mounted main distribution board, inclusive of the following switchgear: <i>1 x 50A 3-pole circuit breaker * 10kA * Incoming Mains</i> <i>1 x 32A 3-pole circuit breaker * 10kA * Feeder 1</i> <i>1 x 32A 3-pole circuit breaker * 10kA * Feeder 2</i> <i>1 x 32A 3-pole circuit breaker * 10kA * Feeder 3</i> b) Traffolyte DB labels # DB "Name" and "Fed from..." c) DB legend card d) Conduct infrared scan on board on completion of works e) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot     Lot No Lot Lot	1     1 1 1 1		
3.4.3	<b><u>DB # 03 (Generator Room * DB-Gen)</u></b> <i>Indoor * Floor Standing</i> a) Service distribution board	Lot	1		
	<i>Carried Forward to NEXT PAGE</i>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.3: Distribution Boards

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
	b) Circuit verification & tracing # fifteen circuits	No	15		
	c) Traffolyte circuit labels # fifteen circuits	No	15		
	d) Traffolyte DB labels # DB "Name" and "Fed from..."	Lot	1		
	e) DB legend card	No	1		
	f) Theatre chillers previously removed from generator power # investigate & reconnect	Lot	1		
	g) Conduct infrared scan on board on completion of works	Lot	1		
	h) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
3.4.4	<b>DB # 04 (Main Sewage Pumps * DB-MSP)</b> <i>Outdoor * Floor Standing * Normal/Standby Power</i>				
	a) Service distribution board	Lot	1		
	b) Circuit verification & tracing # twenty-four circuits	No	24		
	c) Traffolyte circuit labels # twenty-four circuits	No	24		
	d) Traffolyte DB labels # DB "Name" and "Fed from..."	Lot	1		
	e) DB legend card	No	1		
	f) Conduct infrared scan on board on completion of works	Lot	1		
	g) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
	h) Obtain conformity certificates from the original supplier of pump control panels (2 off)	Lot	1		
3.4.5	<b>DB # 05 (Water Pump * DB-WP )</b> <i>Outdoor * Plinth Mounted</i>				
	a) Service distribution board	Lot	1		
	b) Circuit verification & tracing # fifteen circuits	No	15		
	c) Traffolyte circuit labels # fifteen circuits	No	15		
	d) Traffolyte DB labels # DB "Name" and "Fed from..."	Lot	1		
	e) DB legend card	No	1		
	f) Replace day/night switch	No	1		
	g) Conduct infrared scan on board on completion of works	Lot	1		
	h) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				



# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.3: Distribution Boards

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
3.4.6	<u>DB # 06 (Borehole Pump * DB-BP )</u> <i>Outdoor * Surface Mounted</i>				
	a) Service distribution board	Lot	1		
	b) Circuit verification	Lot	1		
	c) Traffolyte DB labels # DB "Name" and "Fed from..."	Lot	1		
	d) DB legend card	No	1		
	e) Supply & install new inner cover	No	1		
	f) Conduct infrared scan on board on completion of works	Lot	1		
	g) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
3.3.7	<u>DB # 07 (Workshops * DB-KD )</u> <i>Indoor * Flush Mounted * Normal/Standby Power</i>				
	a) Service distribution board	Lot	1		
	b) Circuit verification & tracing # twenty-eight circuits	No	28		
	c) Traffolyte circuit labels # twenty-eight circuits	No	28		
	d) Traffolyte DB labels # DB "Name" and "Fed from..."	Lot	1		
	e) DB legend card	No	1		
	f) Conduct infrared scan on board on completion of works	Lot	1		
	g) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
3.3.8	<u>DB # 08 (Mortuary * DB-Mortuary )</u> <i>Indoor * Flush Mounted * Normal/Standby Power</i>				
	a) Service distribution board	Lot	1		
	b) Circuit verification & tracing # forty circuits	No	40		
	c) Traffolyte circuit labels # forty circuits	No	40		
	d) Traffolyte DB labels # DB "Name" and "Fed from..."	Lot	1		
	e) DB legend card	No	1		
	f) Conduct infrared scan on board on completion of works	Lot	1		
	g) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
3.3.9	<u>DB # 09 (Psychiatric Ward * DB-Psychiatric )</u> <i>Indoor * Flush Mounted * Standby Power</i>				
	a) Service distribution board	Lot	1		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.3: Distribution Boards

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from PREVIOUS PAGE</i>				
	b) Circuit verification & tracing # twenty-five circuits	No	25		
	c) Traffolyte circuit labels # twenty-five circuits	No	25		
	d) Traffolyte DB labels # DB "Name" and "Fed from..."	Lot	1		
	e) DB legend card	No	1		
	f) Conduct infrared scan on board on completion of works	Lot	1		
	g) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
3.3.10	<b>DB # 10 (Paediatric Ward - Ground Floor * DB-CHG )</b> <i>Indoor * Flush Mounted * Standby Power</i>				
	a) Service distribution board	Lot	1		
	b) Circuit verification & tracing # twent-two circuits	No	22		
	c) Traffolyte circuit labels # twent-two circuits	No	22		
	d) Traffolyte DB labels # DB "Name" and "Fed from..."	Lot	1		
	e) DB legend card	No	1		
	f) Conduct infrared scan on board on completion of works	Lot	1		
	g) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
3.3.11	<b>DB # 11 (Paediatric Ward - First Floor * DB-CH1 )</b> <i>Indoor * Flush Mounted * Standby Power</i>				
	a) Service distribution board	Lot	1		
	b) Circuit verification & tracing # eighteen circuits	No	18		
	c) Traffolyte circuit labels # eighteen circuits	No	18		
	d) Traffolyte DB labels # DB "Name" and "Fed from..."	Lot	1		
	e) DB legend card	No	1		
	f) Conduct infrared scan on board on completion of works	Lot	1		
	g) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
3.3.12	<b>DB # 12 (Surgical Wards * DB-SW )</b> <i>Indoor * Flush Mounted * Normal/Standby Power</i>				
	a) Service distribution board	Lot	1		
	b) Circuit verification & tracing # eighteen circuits	No	18		
	c) Traffolyte circuit labels # eighteen circuits	No	18		
	d) Traffolyte DB labels # DB "Name" and "Fed from..."	Lot	1		
	<i>Carried Forward to NEXT PAGE</i>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.3: Distribution Boards

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
	e) DB legend card	No	1		
	f) Conduct infrared scan on board on completion of works	Lot	1		
	g) Redundant cables - make safe & remove	Lot	1		
	h) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
3.3.13	<b>DB # 13 (TB Ward * DB-TB )</b> <i>Indoor * Flush Mounted * Normal/Standby Power</i>				
	a) Service distribution board	Lot	1		
	b) Circuit verification & tracing # forty-eight circuits	No	48		
	c) Traffolyte circuit labels # forty-eight circuits	No	48		
	d) Traffolyte DB labels # DB "Name" and "Fed from..."	Lot	1		
	e) DB legend card	No	1		
	f) Conduct infrared scan on board on completion of works	Lot	1		
	g) Redundant cables - make safe & remove	Lot	1		
	h) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
3.3.14	<b>DB # 14 (Admin/Burns Section * DB-Admin )</b> <i>Indoor * Flush Mounted * Normal/Standby Power</i>				
	a) Service distribution board	Lot	1		
	b) Circuit verification & tracing # fifty-five circuits	No	55		
	c) Traffolyte circuit labels # fifty-five circuits	No	55		
	d) Traffolyte DB labels # DB "Name" and "Fed from..."	Lot	1		
	e) DB legend card	No	1		
	f) Conduct infrared scan on board on completion of works	Lot	1		
	g) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
3.3.15	<b>DB # 15 (Burns Unit / Triage / Casualty * DB-UW)</b> <i>Indoor * Surface Mounted * UPS Supply</i>				
	a) Supply and install new UPS surface-mounted distribution board, inclusive of the following switchgear: <i>1 x 63A 3-pole circuit breaker * 6kA * Incoming Mains</i> <i>1 x Hospital Isoloc EPC315RM c/w medical suitable 5kVA isolating transformer</i> <i>1 x 32A 3-pole circuit breaker * 6kA * Feeder - UPS (New)</i> <i>1 x 63A 3-pole Isolator * 6kA * Return Feeder - UPS (New)</i>	Lot	1		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.3: Distribution Boards

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
	<p>9 x 20A 1-pole circuit breaker * 6kA * SSO circuits 2 x 10A 1-pole circuit breaker * 6kA * Light circuits</p> <p>b) Traffolyte labelling</p> <p>c) Traffolyte DB labels - DB "Name" and "Fed from..."</p> <p>d) DB legend card</p> <p>e) Conduct infrared scan on board on completion of works</p> <p>f) Final inspection and testing in preparation for issue of certificate of compliance by master electrician</p>	Lot	1		
3.3.16	<p><u>DB # 16 (Out Patient Department / Pharmacy * DB-IVI)</u> <i>Indoor * Floor Standing * Normal/Standby Power</i></p> <p>a) Service distribution board</p> <p>b) Circuit verification &amp; tracing # fifty-five circuits</p> <p>c) Traffolyte circuit labels # fifty-five circuits</p> <p>d) Traffolyte DB labels # DB "Name" and "Fed from..."</p> <p>e) DB legend card</p> <p>f) Replace circuit breakers as follows: 1 x 40A 1-pole circuit breaker * 6kA</p> <p>g) Rectify incorrectly installed circuit breakers</p> <p>h) Conduct infrared scan on board on completion of works</p> <p>i) Final inspection and testing in preparation for issue of certificate of compliance by master electrician</p>	Lot	1		
		No	55		
		No	55		
		Lot	1		
		No	1		
		No	1		
		No	4		
		Lot	1		
		Lot	1		
3.3.17	<p><u>DB # 17 (Theatres * DB-TH)</u> <i>Indoor * Flush Mounted * Normal/Standby Power</i></p> <p>a) Service distribution board</p> <p>b) Circuit verification &amp; tracing - twelve circuits</p> <p>c) Traffolyte labelling - twelve circuits</p> <p>d) Traffolyte DB labels - allow for DB "Name" and "Fed from..."</p> <p>e) DB legend card</p> <p>f) Conduct infrared scan on board on completion of works</p> <p>g) Final inspection and testing in preparation for issue of certificate of compliance by master electrician</p>	Lot	1		
		No	12		
		No	12		
		Lot	1		
		No	1		
		Lot	1		
		Lot	1		
3.3.18	<p><u>DB # 18 (Theatre 1 * DB-X1)</u> <i>Indoor * Flush Mounted * Essential Supply</i></p> <p>a) Service distribution board</p>	Lot	1		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.3: Distribution Boards

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
	b) Circuit verification & tracing # fifteen circuits	No	15		
	c) Traffolyte circuit labels # fifteen circuits	No	15		
	d) Traffolyte DB labels - allow for DB "Name" and "Fed from..."	Lot	1		
	e) DB legend card	No	1		
	f) Replace Hospital Isoloc EPC315RM	Lot	1		
	g) Conduct infrared scan on board on completion of works	Lot	1		
	h) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
3.3.19	<u>TCP # 1 (Theatre 1 Control Panel * TCP-1)</u> <i>Indoor * Surface Mounted</i>				
	a) Service theatre control panel	Lot	1		
	b) LIM indication lights faulty - Replace with LED (Red/Green)	Lot	1		
	c) Supply & install mute button on TCP for LIM audible alarm	No	1		
3.3.20	<u>DB # 19 (Theatre 2 * DB-X2)</u> <i>Indoor * Flush Mounted * Essential Supply</i>				
	a) Service distribution board	Lot	1		
	b) Circuit verification & tracing # fifteen circuits	No	15		
	c) Traffolyte circuit labels # fifteen circuits	No	15		
	d) Traffolyte DB labels - allow for DB "Name" and "Fed from..."	Lot	1		
	e) DB legend card	No	1		
	f) Replace Hospital Isoloc EPC315RM	Lot	1		
	g) Conduct infrared scan on board on completion of works	Lot	1		
	h) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
3.3.21	<u>TCP # 2 (Theatre 2 Control Panel * TCP-2)</u> <i>Indoor * Surface Mounted</i>				
	a) Service theatre control panel	Lot	1		
	b) LIM indication lights faulty - Replace with LED (Red/Green)	Lot	1		
	c) Supply & install mute button on TCP for LIM audible alarm	No	1		
3.3.22	<u>DB # 20 (Theatre Recovery * DB-X3)</u> <i>Indoor * Flush Mounted * Essential Supply</i>				
	a) Service distribution board	Lot	1		
	b) Circuit verification & tracing # fifteen circuits	No	15		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.3: Distribution Boards

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from PREVIOUS PAGE</i>				
	c) Traffolyte circuit labels # fifteen circuits	No	15		
	d) Traffolyte DB labels - allow for DB "Name" and "Fed from..."	Lot	1		
	e) DB legend card	No	1		
	f) Replace Hospital Isoloc EPC315RM	Lot	1		
	g) Conduct infrared scan on board on completion of works	Lot	1		
	h) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
3.3.23	<b>DB # 21 (X-Ray * DB-Xray)</b> <i>Indoor * Flush Mounted * Normal/Standby Power</i>				
	a) Service distribution board	Lot	1		
	b) Circuit verification & tracing - twenty-five circuits	No	25		
	c) Traffolyte labelling - twenty-five circuits	No	25		
	d) Traffolyte DB labels - allow for DB "Name" and "Fed from..."	Lot	1		
	e) DB legend card	No	1		
	f) Conduct infrared scan on board on completion of works	Lot	1		
	g) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
3.3.24	<b>DB # 22 (Maternity * DB-Maternity )</b> <i>Indoor * Flush Mounted * Normal/Standby Power</i>				
	a) Service distribution board	Lot	1		
	b) Circuit verification & tracing - twenty-five circuits	No	25		
	c) Traffolyte labelling - twenty-five circuits	No	25		
	d) Traffolyte DB labels - allow for DB "Name" and "Fed from..."	Lot	1		
	e) DB legend card	No	1		
	f) Replace circuit breakers as follows: <i>3 x 20A 1-pole Merlin Gerin circuit breakers (115/116/117) to be replaced with 3 x 20A 1-pole CBI circuit breaker * 3kA</i>	Lot	1		
	g) Conduct infrared scan on board on completion of works	Lot	1		
	h) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
3.3.25	<b>DB # 23 (Maternity * DB-Delivery)</b> <i>Indoor * Flush Mounted * Normal/Standby Power</i>				
	a) Service distribution board	Lot	1		
	b) Circuit verification & tracing - twenty-five circuits	No	25		
	<i>Carried Forward to NEXT PAGE</i>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.3: Distribution Boards

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
	c) Traffolyte labelling - twenty-five circuits	No	25		
	d) Traffolyte DB labels - allow for DB "Name" and "Fed from..."	Lot	1		
	e) DB legend card	No	1		
	f) Conduct infrared scan on board on completion of works	Lot	1		
	g) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
3.3.26	<b>DB # 24 (Maternity NNICU * DB-UN)</b> <i>Indoor * Surface Mounted * UPS Supply</i>				
	a) Supply and install new UPS surface-mounted distribution board, inclusive of the following switchgear: 1 x 63A 3-pole circuit breaker * 6kA * Incoming Mains 1 x Hospital Isoloc EPC315RM c/w medical suitable 5kVA isolating transformer 1 x 32A 3-pole circuit breaker * 6kA * Feeder - UPS (New) 1 x 63A 3-pole Isolator * 6kA * Return Feeder - UPS (New) 9 x 20A 1-pole circuit breaker * 6kA * SSO circuits 2 x 10A 1-pole circuit breaker * 6kA * Light circuits	Lot	1		
	b) Traffolyte labelling	Lot	1		
	c) Traffolyte DB labels - allow for DB "Name" and "Fed from..."	Lot	1		
	d) DB legend card	No	1		
	e) Conduct infrared scan on board on completion of works	Lot	1		
	f) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
3.3.27	<b>DB # 25 (Kitchen * DB-Kitchen)</b> <i>Indoor * Floor Standing * Normal/Standby Power</i>				
	a) Service distribution board	Lot	1		
	b) Circuit verification & tracing - ninety circuits	No	90		
	c) Traffolyte labelling - ninety circuits	No	90		
	d) Traffolyte DB labels - allow for DB "Name" and "Fed from..."	Lot	1		
	e) DB legend card	No	1		
	f) Conduct infrared scan on board on completion of works	Lot	1		
	g) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.3: Distribution Boards

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
3.3.28	<u>DB # 26 (Laundry * DB-Laundry)</u> <i>Indoor * Floor Standing * Normal/Standby Power</i>				
	a) Service distribution board	Lot	1		
	b) Circuit verification & tracing - seventy-eight circuits	No	78		
	c) Traffolyte labelling - seventy-eight circuits	No	78		
	d) Traffolyte DB labels - allow for DB "Name" and "Fed from..."	Lot	1		
	e) DB legend card	No	1		
	f) Conduct infrared scan on board on completion of works	Lot	1		
	g) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
3.3.29	<u>DB # 27 (Guard House * DB-GH)</u> <i>Indoor * Surface Mounted</i>				
	a) Service distribution board	Lot	1		
	b) Circuit verification & tracing - twelve circuits	No	12		
	c) Traffolyte labelling - twelve circuits	No	12		
	d) Traffolyte DB labels - allow for DB "Name" and "Fed from..."	Lot	1		
	e) DB legend card	No	1		
	f) Conduct infrared scan on board on completion of works	Lot	1		
	g) Final inspection and testing in preparation for issue of certificate of compliance by master electrician	Lot	1		
<b>3.4</b>	<b><u>DISTRIBUTION BOARD - SWITCHGEAR &amp; ACCESSORIES</u></b>				
	Allowance for the supply and installation of low voltage switchgear of the CBI range, or equivalent and approved, in existing and/or new distribution board enclosures, as follows:				
3.4.1	Supply and install surge protection (type 2 / class 2)				
	a) DEHNguard DG M TT 2P 275; 20/40kA; Mains fuse125A gG	No	3		
	b) DEHNguard DG M TT 275; 20/40kA; Mains fuse125A gG	No	3		
3.4.2	Supply and install circuit breakers (6kA; Curve 2)				
	a) 10-40A; single-pole	No	23		
	b) 45-63A; single-pole	No	15		
	c) 10-40A; 1-pole+N	No	3		
	d) 45-63A; 1-pole+N	No	3		
	e) 10-63A; triple-pole	No	3		
	f) 70-125A; triple-pole	No	3		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				



# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.3: Distribution Boards

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
3.4.3	Supply and install switch disconnectors (6kA; Curve 2)				
	a) 63A; single-pole	No	5		
	b) 100-125A; single-pole	No	3		
	c) 63A; double-pole	No	6		
	d) 100-125A; double-pole	No	3		
	e) 63A; triple-pole	No	3		
	f) 100-125A; triple-pole	No	2		
3.4.4	Supply and install contactors (220Vac coil)				
	a) 32A; AC-1; 220V	No	3		
	a) 40A; AC-3; 380V	No	3		
3.4.5	Supply and install earth leakage units (3kA; 30mA)				
	a) 63A; 1+N; Isolator type (no overload protection)	No	2		
	b) 63A; 3+N; Isolator type (no overload protection)	No	2		
3.4.6	Supply and install accessories as follows:				
	a) DB blanks	No	24		
	b) DB legend cards	No	6		
	c) DB traffolyte labels (DB "Name" and "Fed from...")	No	12		
3.4.7	Supply and install distribution board enclosure as follows:				
	a) 36 Way doublelele door - Surface IP35	No	1		
	b) 20 Way single door - Surface IP35	No	3		
	c) 12 Way single door - Surface IP35	No	2		
<b>3.5</b>	<b><u>CABLE WORKS</u></b>				
	Low Voltage cable as may be laid in ground, wire channels, sleeves and / or on racking and in configurations as indicated on site as follows:				
	600/1000V Cable; Stranded Cu Conductors; PVC SWA PVC; (SANS 1507-3)				
3.5.1	25mm <sup>2</sup> x 4 core stranded Cu				
	a) Supply	M	50		
	b) Install	M	50		
3.5.2	16mm <sup>2</sup> x 4 core stranded Cu				
	a) Supply	M	100		
	b) Install	M	100		
3.5.3	10mm <sup>2</sup> x 4 core stranded Cu				
	a) Supply	M	225		
	b) Install	M	225		
3.5.4	6mm <sup>2</sup> x 4 core stranded Cu				
	a) Supply	M	75		
	b) Install	M	75		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.3: Distribution Boards

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from PREVIOUS PAGE</i>				
3.5.5	4mm <sup>2</sup> x 4 core stranded Cu				
	a) Supply	M	80		
	b) Install	M	80		
	Cable terminations c/w glands, shrouds, termination lugs and fixing accessories for the above cables.				
3.5.6	25mm <sup>2</sup> x 4 core stranded Cu				
	a) Supply	No	4		
	b) Install	No	4		
3.5.7	16mm <sup>2</sup> x 4 core stranded Cu				
	a) Supply	No	4		
	b) Install	No	4		
3.5.8	10mm <sup>2</sup> x 4 core stranded Cu				
	a) Supply	No	20		
	b) Install	No	20		
3.5.9	6mm <sup>2</sup> x 4 core stranded Cu				
	a) Supply	No	6		
	b) Install	No	6		
3.5.10	4mm <sup>2</sup> x 4 core stranded Cu				
	a) Supply	No	6		
	b) Install	No	6		
<b>3.6</b>	<b><u>EXCAVATIONS AND SLEEVES</u></b>				
	Excavate for cable and sleeve trenches including temporary support of sides, keeping excavations dry, backfilling and compaction. [Bedding under and fill around cable and sleeves comprising of sifted sand.]				
	<i>Note: Contractor to make own assesment of % picable/soft rock/hardrock. (Rate per running meter)</i>				
3.6.1	Trench 450mm wide / 600mm deep	M	500		
3.6.2	75mmØ PVC sleeve	M	50		
3.6.3	Repairs to concrete paving and/or tarred road crossing	M <sup>3</sup>	5		
	Cable-warning PVC chevron tape laid in cable trenches at a minimum depth of 300mm above the buried electrical cables.				
3.6.4	Cable Warning Tape	M	500		
<b>CARRIED FORWARD TO ITEM 3 - SUMMARY FOR BILLS OF QUANTITIES</b>					

**Section 4****BOQ No.5: Lighting Installations**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>5.1</b>	<b><u>STANDARD REGULATIONS AND CODES OF PRACTICE</u></b> All low voltage lighting installation work associated with this project shall be in accordance with the latest SANS Codes of Practice 10142-1 and in conjunction with: <i>Occupational Health and Safety Act of 1993</i> <i>Manufacturer's Specifications and Installation Instructions.</i> <i>Industry Standard Good Practices</i>				
<b>5.2</b>	<b><u>TENDERED RATES</u></b> The tendered rates used in this bills of quantities shall be applied as follows: <i>a) Supply : Tendered rate for the supply of the specified item's measured unit quantity to be installed.</i> <i>b) Replace : Tendered rate for the supply of the specified item's measured unit quantity to be installed, and shall include full compensation for the removal of the existing item to be replaced.</i> <i>c) Install : Tendered rate for the installation of the specified item's measured unit quantity.</i>				
<b>5.3</b>	<b><u>INDOOR LIGHTING - LUMINAIRES</u></b> Supply and installation of luminaires of the Beka-, Philips-, Province Lighting type/s and range/s (c/w lamps), or equivalent and approved. Allow for the mounting onto cable trays, concrete, brickwork, walls and/or ceilings c/w all brackets, supports, conduit boxes, mounting and fixing accessories.				
<b>5.3.1</b>	<b>Type A</b> 1200x600; Recessed 3x28W T5 lamps - Cool White; ECG a) Replace b) Install	No No			Rate Only Rate Only
<b>5.3.2</b>	<b>Type B</b> 1200x600; Recessed 4x28W T5 lamps - Cool White; ECG a) Replace b) Install	No No			Rate Only Rate Only
<b>5.3.3</b>	<b>Type C</b> 1500mm; Surface Open Channel Fluorescent; 1x35W T5 lamps - Cool White; ECG; Wide Body a) Replace b) Install	No No	5 5		
<b>5.3.4</b>	<b>Type D</b> 1500mm; Surface Open Channel Fluorescent; 2x35W T5 lamps - Cool White; ECG; Wide Body a) Supply b) Replace c) Install	No No No	15 291 306		
Carried Forward to <b>NEXT PAGE</b>					

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.5: Lighting Installations

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from PREVIOUS PAGE</i>				
5.3.5	<b>Type D1</b> 1500mm; Surface Open Channel Fluorescent; 2x35W T5 lamps - Cool White; ECG; Wide Body; Emergency a) Replace b) Install	No No	20 20		
5.3.6	<b>Type E</b> 1500mm; Surface Vapour Proof Fluorescent; 2x35W T5 lamps - Cool White; ECG; Wide Body a) Replace b) Install	No No	20 20		
5.3.7	<b>Type F</b> 1200x600; Surface 4x28W T5 lamps - Cool White; ECG a) Replace b) Install	No No			Rate Only Rate Only
5.3.8	<b>Type G (New installation above each bed)</b> Recessed LED Downlight; Round; 32W Opal glass lens; 36°; ECG; 900mA (Allow full installation c/w for conduit, wiring & light switch) a) Supply b) Install	No No	64 64		
5.3.9	<b>Type H</b> Recessed LED Downlight; Round; 18W Opal glass lens; ECG a) Replace b) Install	No No			Rate Only Rate Only
5.3.10	<b>Type I</b> Indoor LED Bulkhead; Round; 18W a) Supply b) Replace c) Install	No No No	15 65 80		
<b>5.4</b>	<b><u>INDOOR LIGHTING - SPECIALIST LUMINAIRES</u></b> Supply and installation of operating theatre lighting of the Hutz Medical Luvis range, or equivalent and approved, mounted onto ceilings c/w all brackets, supports, conduit boxes, mounting and fixing accessories.				
5.4.1	<b>Type SL1</b> LUVIS M200 Ceiling Theatre Light; LED 48W 120 000 Lux @ 1000mm; Intensity control (6 step) 40 000 to 120 000 Lux; 4300K; 95 Ra; 500mm head a) Supply b) Install	No No	2 2		
	<i>Carried Forward to NEXT PAGE</i>				

## Section 4

## BOQ No.5: Lighting Installations

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from PREVIOUS PAGE</i>				
<b>5.5</b>	<b><u>INDOOR LIGHTING - REPAIRS</u></b> Repairs to existing faulty luminaires as may be identified on site, inclusive of the removal, supply, re-installation of specified tubes, lamps and ballasts according to the manufacturers instructions.				
5.5.1	Bed Head Unit - 600mm Fluorescent Tube; 18W				
	a) Replace	No	10		
	b) Install	No	10		
5.5.2	Bed Head Unit - 1200mm Fluorescent Tube; 36W				
	a) Replace	No	10		
	b) Install	No	10		
5.5.3	1200mm Fluorescent Tube; 36W				
	a) Replace	No	33		
	b) Install	No	33		
5.5.4	1500mm Fluorescent Tube; 58W				
	a) Replace	No	151		
	b) Install	No	151		
5.5.5	CFL Tube; PL9W				
	a) Replace	No	20		
	b) Install	No	20		
5.5.6	CFL Tube; 15W				
	a) Replace	No	20		
	b) Install	No	20		
5.5.7	CFL Tube; 16W-2D				
	a) Replace	No	20		
	b) Install	No	20		
5.5.8	Ballast; 600mm Fluorescent Fittings				
	a) Replace	No	1		
	b) Install	No	1		
5.5.9	Ballast; 1200mm Fluorescent Fittings				
	a) Replace	No	10		
	b) Install	No	10		
5.5.10	Ballast; 1500mm Fluorescent Fittings				
	a) Replace	No	52		
	b) Install	No	52		
5.5.11	Ballast; 16W CFL				
	a) Replace	No	10		
	b) Install	No	10		
5.5.12	Starters; Fluorescent Fittings				
	a) Replace	No	58		
	b) Install	No	58		
	<i>Carried Forward to NEXT PAGE</i>				

## Section 4

## BOQ No.5: Lighting Installations

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from PREVIOUS PAGE</i>				
<b>5.6</b>	<b><u>UVGI UNITS - REPAIR / MAINTENANCE</u></b> Repairs and maintenance of existing UVGI (Ultra-Violet Germicidal Irradiation) Units, inclusive of the removal, supply, re-installation of specified parts of the UVGI units (i.e. lamps, ballasts and fans) according to the manufacturers instructions.  <u>Repair of existing UVGI units</u>				
5.6.1	PL9 UV Lamps				
	a) Replace	No	184		
	b) Install	No	184		
5.6.2	PL9 Ballast				
	a) Replace	No	92		
	b) Install	No	92		
5.6.3	Fans				
	a) Replace	No	46		
	b) Install	No	46		
<b>5.7</b>	<b><u>OUTDOOR AREA LIGHTING</u></b> Supply and installation of all luminaires c/w lamps. Allow for the mounting onto brickwork, walls, poles c/w all mountings, brackets, supports, cable boxes, mounting and fixing accessories.				
5.7.1	<b>Type X1</b> LED Floodlight; 125W; 10 000lm (min) Clear tempered glass; IP65				
	a) Replace	No	9		
	b) Install	No	9		
5.7.2	<b>Type X2</b> LED Floodlight; 250W; 20 000lm (min) Clear tempered glass; IP65				
	a) Replace	No	5		
	b) Install	No	5		
5.7.3	<b>Type X3</b> HPS Streetlight; 250W; 27 000lm (min) High-impact acrylic diffuser; E40; IP65				
	a) Replace	No	26		
	b) Install	No	26		
5.7.4	<b>Type X4</b> LED Bulkhead; Round; 18W				
	a) Supply	No	50		
	b) Install	No	50		
	<i>Carried Forward to NEXT PAGE</i>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.5: Lighting Installations

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
<b>5.8</b>	<b><u>OUTDOOR LIGHTING - REPAIRS</u></b> Repairs to existing faulty luminaires as may be identified on site, inclusive of the removal, supply, re-installation of specified tubes, lamps and ballasts according to the manufacturers instructions.				
5.8.1	CFL-2x18W Lamp; G24 base; 1 200 lm (min)				
	a) Replace	No	50		
	b) Install	No	50		
5.8.2	HPS-125W Lamp; Tubular; E27 base; 6 300 lm (min)				
	a) Replace	No	10		
	b) Install	No	10		
5.8.3	HPS-125W Luminaire Control Gear				
	a) Replace	No	8		
	b) Install	No	8		
5.8.4	HPS-250W Lamp; Tubular; E40 base; 27 000 lm (min)				
	a) Replace	No	10		
	b) Install	No	10		
5.8.5	HPS-250W Luminaire Control Gear				
	a) Replace	No	8		
	b) Install	No	8		
	Outdoor lighting control panel, surface mounted, powder-coated mild-steel enclosure (minimum IP65) c/w steelwork, frame, chassis, control switchgear, lockable door and mounting accessories. Allow for switchgear of the CBI range, or equivalent and approved to be installed in each lighting control panel, as follows:  1 off - 30A Triple Pole 6kA Circuit Breaker - Mains 1 off - 40A Triple Pole Contactor; 220Vac Coil 1 off - 6A Single Pole 6kA Circuit Breaker - Control 3 off - 15A Single Pole 6kA Circuit Breaker - Load 1 off - 10A Photocell mounted on outside of enclosure				
5.8.6	Lighting Control Panel - (Orange) [250mm(h) x 350mm(w) x 150mm(d)]				
	a) Supply	No	8		
	b) Install	No	8		
5.8.7	600/1000V Cable; Stranded Cu Conductors; PVC SWA PVC; 10mm² x 4 core stranded Cu				
	a) Supply	M	250		
	b) Install	M	250		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.5: Lighting Installations

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from PREVIOUS PAGE</i>				
5.8.8	2.5mm <sup>2</sup> x 4 core stranded Cu				
	a) Supply	M	75		
	b) Install	M	75		
	Cable terminations c/w glands, shrouds, termination lugs and				
5.8.9	10mm <sup>2</sup> x 4 core stranded Cu				
	a) Supply	No	10		
	b) Install	No	10		
5.8.10	2.5mm <sup>2</sup> x 4 core stranded Cu				
	a) Supply	M	6		
	b) Install	M	6		
	Cable Joints				
5.8.11	10mm <sup>2</sup> x 4 core stranded Cu				
	a) Supply	No	2		
	b) Install	No	2		
	Excavate for cable and sleeve trenches including temporary support of sides, keeping excavations dry, backfilling and compaction. [Bedding under and fill around cable and sleeves comprising of sifted sand.]				
	<b>Note:</b> Contractor to make own assesment of % picable/soft rock/hardrock. (Rate per running meter)				
5.8.12	Trench 450mm wide / 600mm deep	M	300		
5.8.13	Repairs to concrete paving and/or tarred road crossing	M <sup>3</sup>	5		
5.8.14	110mmØ PVC sleeve	M	50		
	Cable-warning PVC chevron tape laid in cable trenches at a minimum depth of 300mm above the buried electrical cables.				
5.8.15	Cable Warning Tape	M	300		
	a) Supply	M	300		
	b) Install				
CARRIED FORWARD TO ITEM 5 - SUMMARY FOR BILLS OF QUANTITIES					



**Section 4****BOQ No.6: Nurse Call Systems**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>6.1</b>	<b><u>STANDARD REGULATIONS AND CODES OF PRACTICE</u></b> All low voltage electrical installation work, pertaining to nurse call systems associated with this project, shall be in accordance with the latest SANS Codes of Practice 10142-1 and in conjunction with: <i>Occupational Health and Safety Act of 1993</i> <i>Manufacturer's Specifications and Installation Instructions</i> <i>Industry Standard Good Practices</i>				
<b>6.2</b>	<b><u>NURSE CALL SYSTEMS</u></b> The new nurse call systems shall be supplied, installed and commissioned by a Specialist Contractor. The existing system is a <i>Micro Nursecall Systems</i> type of nurse call system . The new nurse call systems for the planned medical wards shall be of the same type and manufacture, or equivalent and approved.				
<b>6.3</b>	<b><u>SYSTEM INSTALLATION - MATERNITY WARD</u></b> Supply, installation, test and commissioning of a nurse call system in conjunction with manufacturers instructions and standard installation good practices, c/w suitable junction boxes, 2x4 and 4x4 adaptors, mounting and fixing accessories.				
6.3.1	MM-Mimic Panel				
	a) Supply	No	1		
	b) Install	No	1		
6.3.2	24VDC Regulated Power Supply with 4A output rating				
	a) Supply	No	1		
	b) Install	No	1		
6.3.3	MB-EUB-R (BHU R02 UB4) Round Bedunit with UB4 socket				
	a) Supply	No	67		
	b) Install	No	67		
6.3.4	MH-PUB (MNS-PP-LED-UB4) Patient Handset unit without TV Control - Pearpush 1.8m cord, moulded UB4 plug + LED Lens				
	a) Supply	No	67		
	b) Install	No	67		
6.3.5	MW-PLL-4x4 (MSNLPCR) Latching Pullcord unit with led on 4x4 mounting plate				
	a) Supply	No	8		
	b) Install	No	8		
6.3.6	MW-PBL-C (MSNLBR) Latching Pushbutton with LED, Clip-In				
	a) Supply	No	8		
	b) Install	No	8		
Carried Forward to <b>NEXT PAGE</b>					

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.6: Nurse Call Systems

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
6.3.7	MI-ODL-C (MNSODL) Dome shape 4-led overdoor light, Clip-In				
	a) Supply	No	12		
	b) Install	No	12		
6.3.8	Communication Cable				
	a) Supply	M	1680		
	b) Install	M	1680		
<b>6.4</b>	<b><u>SYSTEM INSTALLATION - CHILDREN WARD</u></b>				
	Supply, installation, test and commissioning of a nurse call system in conjunction with manufacturers instructions and standard installation good practices, c/w suitable junction boxes, 2x4 and 4x4 adaptors, mounting and fixing accessories.				
6.4.1	MM-Mimic Panel				
	a) Supply	No	1		
	b) Install	No	1		
6.4.2	24VDC Regulated Power Supply with 4A output rating				
	a) Supply	No	1		
	b) Install	No	1		
6.4.3	MB-EUB-R (BHU R02 UB4) Round Bedunit with UB4 socket				
	a) Supply	No	50		
	b) Install	No	50		
6.4.4	MH-PUB (MNS-PP-LED-UB4) Patient Handset unit without TV Control - Pearpush 1.8m cord, moulded UB4 plug + LED Lens				
	a) Supply	No	50		
	b) Install	No	50		
6.4.5	MW-PLL-4x4 (MSNLPCR) Latching Pullcord unit with led on 4x4 mounting plate				
	a) Supply	No	3		
	b) Install	No	3		
6.4.6	MW-PBL-C (MSNLBR) Latching Pushbutton with LED, Clip-In				
	a) Supply	No	3		
	b) Install	No	3		
6.4.7	MI-ODL-C (MNSODL) Dome shape 4-led overdoor light, Clip-In				
	a) Supply	No	15		
	b) Install	No	15		
6.4.8	Communication Cable				
	a) Supply	M	1250		
	b) Install	M	1250		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.6: Nurse Call Systems

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from PREVIOUS PAGE</i>				
<b>6.5</b>	<b><u>SYSTEM INSTALLATION - TB WARD</u></b> Supply, installation, test and commissioning of a nurse call system in conjunction with manufacturers instructions and standard installation good practices, c/w suitable junction boxes, 2x4 and 4x4 adaptors, mounting and fixing accessories.				
6.5.1	MM-Mimic Panel				
	a) Supply	No	1		
	b) Install	No	1		
6.5.2	24VDC Regulated Power Supply with 4A output rating				
	a) Supply	No	1		
	b) Install	No	1		
6.5.3	MB-EUB-R (BHU R02 UB4) Round Bedunit with UB4 socket				
	a) Supply	No	72		
	b) Install	No	72		
6.5.4	MH-PUB (MNS-PP-LED-UB4) Patient Handset unit without TV Control - Pearpush 1.8m cord, moulded UB4 plug + LED Lens				
	a) Supply	No	72		
	b) Install	No	72		
6.5.5	MW-PLL-4x4 (MSNLPCR) Latching Pullcord unit with led on 4x4 mounting plate				
	a) Supply	No	3		
	b) Install	No	3		
6.5.6	MW-PBL-C (MSNLBR) Latching Pushbutton with LED, Clip-In				
	a) Supply	No	3		
	b) Install	No	3		
6.5.7	MI-ODL-C (MNSODL) Dome shape 4-led overdoor light, Clip-In				
	a) Supply	No	5		
	b) Install	No	5		
6.5.8	Communication Cable				
	a) Supply	M	1800		
	b) Install	M	1800		
<b>6.5</b>	<b><u>SYSTEM INSTALLATION - MEDICAL WARD</u></b> Supply, installation, test and commissioning of a nurse call system in conjunction with manufacturers instructions and standard installation good practices, c/w suitable junction boxes, 2x4 and 4x4 adaptors, mounting and fixing accessories.				
6.5.1	MM-Mimic Panel				
	a) Supply	No	1		
	b) Install	No	1		
	<i>Carried Forward to NEXT PAGE</i>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.6: Nurse Call Systems

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
6.5.2	24VDC Regulated Power Supply with 4A output rating				
	a) Supply	No	1		
	b) Install	No	1		
6.5.3	MB-EUB-R (BHU R02 UB4) Round Bedunit with UB4 socket				
	a) Supply	No	76		
	b) Install	No	76		
6.5.4	MH-PUB (MNS-PP-LED-UB4) Patient Handset unit without TV Control - Pearpush 1.8m cord, moulded UB4 plug + LED Lens				
	a) Supply	No	76		
	b) Install	No	76		
6.5.5	MW-PLL-4x4 (MSNLPCR) Latching Pullcord unit with led on 4x4 mounting plate				
	a) Supply	No	7		
	b) Install	No	7		
6.5.6	MW-PBL-C (MSNLBR) Latching Pushbutton with LED, Clip-In				
	a) Supply	No	7		
	b) Install	No	7		
6.5.7	MI-ODL-C (MNSODL) Dome shape 4-led overdoor light, Clip-In				
	a) Supply	No	14		
	b) Install	No	14		
6.5.8	Communication Cable				
	a) Supply	M	1900		
	b) Install	M	1900		
<b>6.6</b>	<b><u>SYSTEM INSTALLATION - PSYCHIATRIC WARD</u></b>				
	Supply, installation, test and commissioning of a nurse call system in conjunction with manufacturers instructions and standard installation good practices, c/w suitable junction boxes, 2x4 and 4x4 adaptors, mounting and fixing accessories.				
6.6.1	MM-Mimic Panel				
	a) Supply	No	1		
	b) Install	No	1		
6.6.2	24VDC Regulated Power Supply with 4A output rating				
	a) Supply	No	1		
	b) Install	No	1		
6.6.3	MB-EUB-R (BHU R02 UB4) Round Bedunit with UB4 socket				
	a) Supply	No	9		
	b) Install	No	9		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.6: Nurse Call Systems

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
6.6.4	MH-PUB (MNS-PP-LED-UB4) Patient Handset unit without TV Control - Pearpush 1.8m cord, moulded UB4 plug + LED Lens				
	a) Supply	No	9		
	b) Install	No	9		
6.6.5	MW-PLL-4x4 (MSNLPCR) Latching Pullcord unit with led on 4x4 mounting plate				
	a) Supply	No	3		
	b) Install	No	3		
6.6.6	MW-PBL-C (MSNLBR) Latching Pushbutton with LED, Clip-In				
	a) Supply	No	3		
	b) Install	No	3		
6.6.7	MI-ODL-C (MNSODL) Dome shape 4-led overdoor light, Clip-In				
	a) Supply	No	3		
	b) Install	No	3		
6.6.8	Communication Cable				
	a) Supply	M	230		
	b) Install	M	230		
<b>6.7</b>	<b><u>SYSTEM INSTALLATION - BURN &amp; HIGH WARD</u></b>				
	Supply, installation, test and commissioning of a nurse call system in conjunction with manufacturers instructions and standard installation good practices, c/w suitable junction boxes, 2x4 and 4x4 adaptors, mounting and fixing accessories.				
6.7.1	MM-Mimic Panel				
	a) Supply	No	1		
	b) Install	No	1		
6.7.2	24VDC Regulated Power Supply with 4A output rating				
	a) Supply	No	1		
	b) Install	No	1		
6.7.3	MB-EUB-R (BHU R02 UB4) Round Bedunit with UB4 socket				
	a) Supply	No	12		
	b) Install	No	12		
6.7.4	MH-PUB (MNS-PP-LED-UB4) Patient Handset unit without TV Control - Pearpush 1.8m cord, moulded UB4 plug + LED Lens				
	a) Supply	No	12		
	b) Install	No	12		
6.7.5	MW-PLL-4x4 (MSNLPCR) Latching Pullcord unit with led on 4x4 mounting plate				
	a) Supply	No	1		
	b) Install	No	1		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.6: Nurse Call Systems

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
6.7.6	MW-PBL-C (MSNLBR) Latching Pushbutton with LED, Clip-In				
	a) Supply	No	1		
	b) Install	No	1		
6.7.7	MI-ODL-C (MNSODL) Dome shape 4-led overdoor light, Clip-In				
	a) Supply	No	2		
	b) Install	No	2		
6.7.8	Communication Cable				
	a) Supply	M	300		
	b) Install	M	300		
<b>6.8</b>	<b><u>WIRING DUCT &amp; CONDUIT</u></b>				
	Wiring duct of the Cabstrut, or equivalent and approved. Surface wall mounted and/or suspended in ceiling void, c/w all elbows, tees, covers, splices, end caps, mounting fixtures, adaptors, clamps, hangers and accessories.				
6.8.1	P8000 - Wiring duct				
	a) Supply	M	480		
	b) Install	M	480		
	Conduit, as may be required, to be surface mounted onto concrete/brickwork, c/w all jointing, short lengths, wall boxes, couplings, bends, conduit boxes, loop-in boxes, saddles and mounting accessories.				
6.8.2	25mm - PVC				
	a) Supply	M	4650		
	b) Install	M	4650		
6.8.3	25mm - Galvanised				
	a) Supply	M	60		
	b) Install	M	60		
<b>6.9</b>	<b><u>TESTING &amp; COMMISSIONING</u></b>				
6.9.1	Inspections, testing and commissioning of each individual nurse call system.	No	6		
6.9.2	Handing over of commissioned works and a comprehensive "As-built" Data Pack : Three (3) hard copies in A4-sized binders and one (1) soft copy on Disc for each individual installation.	No	6		
<b>CARRIED FORWARD TO ITEM 6 - SUMMARY FOR BILLS OF QUANTITIES</b>					

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.7: Surge & Lightning Protection (SLP)

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>7.1</b>	<b><u>CODES OF PRACTICE</u></b> The Surge & Lightning Protection System shall be designed and installed by a Specialist Contractor, in accordance with the latest SANS Codes of Practice 10313 (2012) and in conjunction with: SANS 62305-1-2-3-4:2011 (IEC 62305-1-2-3-4:2010) SANS 10199 (2016) SANS 1063 (2015) SANS 62561:1-7:2013.				
<b>7.2</b>	<b><u>RISK ASSESSMENT &amp; SOIL RESISTIVITY TEST</u></b>				
7.2.1	Conduct a Risk Assessment in terms of SANS 62305-2 and compile subsequent report.	Lot	1		
7.2.2	Conduct a Soil Resistivity test on site and compile subsequent report.	Lot	1		
<b>7.3</b>	<b><u>SYSTEM INSTALLATION</u></b> Supply, installation, test and commissioning of SLP system in conjunction with the above codes of practice, risk assessment and soil resistivity tests. All related safety files, accommodation and travelling costs shall be allowed for in the supply and installation per unit rates. <b><u>Air Termination System (ATS)</u></b> The air-termination system will be installed to prevent lightning strikes from damaging the building by intercepting the lightning strike and preventing penetration into the the protected space.				
7.3.1	(DEHN 840018) 8mm aluminium round wire secured in holders a) Supply & Install	M	60		
7.3.2	Surface mounted (DEHN 207109) conductor holder with 1m spacing a) Supply & Install	No	60		
7.3.3	(DEHN 103410) 1500mm mast a) Supply & Install	No	2		
7.3.4	(DEHN 274260) holder for wall-mounted masts a) Supply & Install	No	4		
	<b><u>Down Conductor System (DCS)</u></b> The down-conductor system will be installed surface mounted and secured to the wall every 1m with conductor holder, to safely conduct the lightning current from the ATS to the ETS without damaging the building.				
7.3.5	(DEHN 840018) 8mm aluminium round wire secured in holders a) Supply & Install	M	350		
7.3.6	Surface mounted (DEHN 207109) conductor holder with 1m spacing a) Supply & Install	No	350		
	Carried Forward to <b>NEXT PAGE</b>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.7: Surge & Lightning Protection (SLP)

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
7.3.7	(DEHN 377100) clamp to connect to steel sheeting a) Supply & Install	No	95		
7.3.8	(DEHN 459219) UNI disconnecting clamp for connection between DCS and ETS a) Supply & Install	No	95		
	<b><u>Earth Termination System (ETS)</u></b> Type-A earthing arrangement will be installed 500mm below final ground level and 1m away from building / structure, to safely dissipate the lightning current into the ground.				
7.3.9	20mm galvanised conduit c/w with saddle clamps a) Supply & Install	M	200		
7.3.10	(DEHN 832050) 50mm <sup>2</sup> insulated copper wire for connection between disconnection clamp and earth spike a) Supply & Install	M	200		
7.3.11	(DEHN 614150) 1500mm SABS Grade A earth spike, M16 a) Supply & Install	M	200		
7.3.12	(DEHN 610101) clamp for the connection between the BCEW and the earth spike a) Supply & Install	No	95		
7.3.13	Test Plate a) Supply & Install	No	95		
7.3.14	Chasing in brick and/or concrete a) Supply & Install	M	95		
7.3.15	Making good of above chasing work in brick and/or concrete a) Supply & Install	M	95		
	Excavation work pertaining to the earthing system c/w final backfilling and compaction <b>Note:</b> Contractor to make own assesment of % picable/soft rock/hardrock. (Rate per running meter)				
7.3.16	Excavation 250mm wide / 500mm deep	M	95		
	<b><u>Equipotential Bonding System (EBS)</u></b> Providing equipotential bonding points for metal installations and internal systems to prevent dangerous sparking inside the structure due to lightning current flowing in the external LPS or any conductive parts of a structure.				
7.3.17	(DEHN 951310) surge protection devices a) Supply & Install	No	7		
7.3.18	(DEHN 952310) surge protection devices a) Supply & Install	No	12		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				



# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.7: Surge & Lightning Protection (SLP)

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
7.3.19	(DEHN 563201) equipotential busbar a) Supply & Install	No	6		
7.3.20	Equipotential busbar labelling a) Supply & Install	No	6		
7.3.21	(DEHN 833050) 50mm <sup>2</sup> insulated copper cable for connection between fixed terminal and equipotential busbar a) Supply & Install	M	180		
	Excavation work pertaining to the equipotential bonding system from SLP to Main Distribution Board c/w final backfilling and compaction <b>Note:</b> Contractor to make own assesment of % picable/soft rock/hardrock. (Rate per running meter)				
7.3.22	Excavation 250mm wide / 500mm deep	M	180		
<b>7.4</b>	<b><u>TESTING &amp; COMMISSIONING</u></b>				
7.4.1	Inspections, testing and commissioning of the complete SLP system in conjunction with the above codes of practice.	Lot	1		
7.4.2	Certificate of Compliance as per SANS 10142 for the complete SLP system.	Lot	1		
7.4.3	Handing over of commissioned works and a comprehensive "As-built" Data Pack : Three (3) hard copies in A4-sized binders and one (1) soft copy on Disc.	Lot	1		
<b>7.5</b>	<b><u>MISCELLANEOUS</u></b>				
7.5.1	Specialist Contractor - Health & Safety File	Lot	1		
7.5.2	Specialist Contractor - Travelling & accommodation	Lot	1		
<b>CARRIED FORWARD TO ITEM 7 - SUMMARY FOR BILLS OF QUANTITIES</b>					

## Section 4

## BOQ No.8: Emergency Power

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
8.1	<p><b><u>STANDARD REGULATIONS AND CODES OF PRACTICE</u></b></p> <p>All low voltage electrical installation work, pertaining to standby generator systems associated with this project, shall be in accordance with the latest SANS Codes of Practice 10142-1 and in conjunction with:</p> <p><i>Occupational Health and Safety Act of 1993</i>  <i>Manufacturer's Specifications and Installation Instructions.</i>  <i>Industry Standard Good Practices</i></p>				
8.2	<p><b><u>STANDBY DIESEL GENERATOR MAINTENANCE SERVICE</u></b></p> <p>The tendered rate shall include full compensation for the on-site annual maintenance service of the existing 350KVA 400V Leroy Somer standby diesel generator set.</p> <p><i>Note: There are no service records for the existing generator.</i></p> <p>The maintenance service shall include for all labour, materials, spares, consumables and first-fill of diesel. The major service shall be conducted and commissioned in conjunction with Item 3.4.3 of Bill No.3 (servicing of DB-Gen)</p> <p>The maintenance service shall allow for the following (as a</p> <ul style="list-style-type: none"> <li>a) Change of all filters</li> <li>b) Oil changed</li> <li>c) Belts checked</li> <li>d) Battery checked</li> <li>e) Water and coolant checked</li> <li>f) Engine cleaned &amp; checked for leaks</li> <li>g) Alternator cleaned</li> <li>h) Inspect/check all alternator output connections</li> <li>i) Inspect all components and cubicle</li> <li>j) Inspect all wiring and terminals</li> <li>k) Flush and re-fill daily service fuel tank</li> <li>l) Load tested on site</li> <li>m) Controllers programmed</li> </ul> <p>The Tenderer shall ensure that the generator set is fully operational on completion of the maintenance service.</p> <p>The Tenderer shall allow for on-site maintenance servicing of the generator set for a further 12-month period from date of works completion and hand-over to Client.</p>				
8.2.1	Generator Maintenance Service	Lot	1		
8.2.2	Twelve (12) month guarantee period from date of works completion and hand-over to Client.	Lot	1		
8.2.3	6-Monthly maintenance services of the generator set during the twelve (12) months guarantee period	Lot	1		
CARRIED FORWARD TO ITEM 8 - SUMMARY FOR BILLS OF QUANTITIES					

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.9: Bulk Supply

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>9.1</b>	<p><b><u>STANDARD REGULATIONS AND CODES OF PRACTICE</u></b></p> <p>All medium voltage electrical installation work pertaining to this project shall be in accordance with the latest SANS Codes of Practice for Miniature Substations (SANS 1029 / NRS 004), Ring Main Units (SANS 1874 / NRS 006), Transformers (SANS 780 / NRS 054), Oil purification (SANS 555 &amp; IEC 159) and in conjunction with:</p> <p><i>Occupational Health and Safety Act of 1993</i>  <i>Manufacturer's Specifications and Installation Instructions.</i>  <i>Industry Standard Good Practices</i></p>				
<b>9.2</b>	<p><b><u>TRANSFORMER MAINTENANCE SERVICE</u></b></p> <p>The tendered rate shall include full compensation for the on-site maintenance service of two off 315KVA 11kV/400V oil-filled transformers and associated 11kV switchgear.</p> <p><u>Note</u>: There are no service records for the existing bulk supply transformers.</p> <p>The maintenance service shall allow for the following (as a minimum):</p> <ul style="list-style-type: none"> <li>a) Oil test &amp; analysis</li> <li>b) Repair of all oil leaks</li> <li>c) Top-up of oil if the oil is below the recommended level</li> <li>d) Replacement of silica gel</li> <li>e) Cleaning of transformer</li> </ul> <p>The Tenderer shall allow for standard on-site maintenance of the transformers for a further 12-month period from date of works completion and hand-over to Client.</p>				
9.2.1	11kV Switchgear - Maintenance Service	Lot	1		
9.2.2	11kV/400V 315KVA Transformers - Maintenance Service	ea	2		
9.2.3	Twelve (12) month service guarantee	Lot	1		
9.2.4	Servicing of units during twelve (12) months guarantee period	Lot	1		
CARRIED FORWARD TO ITEM 9 - SUMMARY FOR BILLS OF QUANTITIES					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI**

**Section 4**  
**BOQ No.10: HVAC**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>10.1</b>	<b><u>STANDARD REGULATIONS AND CODES OF PRACTICE</u></b> All low voltage electrical installation work, pertaining to the mechanical engineering systems associated with this project, shall be in accordance with the latest SANS Codes of Practice 10142-1 and in conjunction with: <i>Occupational Health and Safety Act of 1993</i> <i>Manufacturer's Specifications and Installation Instructions</i> <i>Industry Standard Good Practices</i>				
<b>10.2</b>	<b><u>HVAC SYSTEMS</u></b> Supply, installation, test and commissioning of LV small power distribution and cable work associated with new mechanical HVAC systems; and in conjunction with the Mechanical Engineer's design requirements.				
<b>10.3</b>	<b><u>DISTRIBUTION SWITCHBOARDS</u></b> New enclosures shall be powder coated, have a minimum IP35 rating (indoors), IP65 rating (outdoors) and be c/w steelwork, frames, sub-frames, chassis, covers and lockable doors.  New distribution switchboards shall be of the specified enclosure, factory equipped and wired c/w power and control switchgear, busbars, internal wiring, auxillary equipment, fixing accessories, labelling, signage and allowance for 30% spare capacity.  All new low voltage switchgear required to be installed, in existing and/or new distribution board enclosures, shall be of the CBI range, or equivalent and approved.				
<b>10.3.1</b>	<b><u>DB-HVAC 1</u></b> <i>Outdoor * Surface Wall * Front Access * Bottom/Top Entry</i>				
(a)	Design, manufacture, supply and delivery to site c/w the supply and equipping of associated switchgear, as tabled below:  <i>1 off DEHNguard DG M TT 275 Surge Arrester</i> <i>1 off 200A * 3-Pole Isolator * Mains Disconnecter</i> <i>2 off 100A * 3-Pole Circuit Breaker * 10kA</i> <i>27 off 15A * 1-Pole Circuit Breaker * 10kA</i>	No	1		
(b)	Factory Acceptance Tests (FAT).	No	1		
(c)	Install new distribution board in position; connect all incoming supply and outgoing feeder cables and make good for commissioning.	No	1		
(d)	Labelling, signage of complete installation.	No	1		
(e)	Commissioning and Site Acceptance Tests (SAT)	No	1		
<i>Carried Forward to NEXT PAGE</i>					

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4 BOQ No.10: HVAC

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from PREVIOUS PAGE</i>				
10.3.2	<b><u>DB-HVAC 2</u></b> <i>Outdoor * Surface Wall * Front Access * Bottom/Top Entry</i>				
(a)	Design, manufacture, supply and delivery to site c/w the supply and installation of associated switchgear, as tabled below: 1 off DEHNguard DG M TT 275 Surge Arrester 1 off 160A * 3-Pole Isolator * Mains Disconnecter 13 off 25A * 1-Pole Circuit Breaker * 10kA 2 off 15A * 1-Pole Circuit Breaker * 10kA	No	1		
(b)	Factory Acceptance Tests (FAT).	No	1		
(c)	Install new distribution board in position; connect all incoming supply and outgoing feeder cables and make good for commissioning.	No	1		
(d)	Labelling, signage of complete installation.	No	1		
(e)	Commissioning and Site Acceptance Tests (SAT)	No	1		
10.3.3	<b><u>EXISTING MAIN LT PANEL</u></b> <i>Indoor * Floor Standing * Front Access * Bottom/Top Entry</i>				
(a)	Allow for the the supply and on-site installation of new outgoing feeder cable circuit breakers, as tabled below: i) 200A * 3-Pole C/B * 10kA - Feeder to DB-HVAC 1 ii) 160A * 3-Pole C/B * 10kA - Feeder to DB-HVAC 2	No No	1 1		
(b)	Connect all outgoing feeder cables and make good for commissioning.	No	2		
(c)	Labelling, signage of complete installation.	No	2		
10.4	<b><u>CABLE WORKS</u></b> Cable tray (pre-galvanised perforated) of the O-Line range, or equivalent and approved, c/w all bends, tees, splices, end caps and splicing accessories. Cable trays shall be supported every 1.5m (min) by an adequate support system.				
10.4.1	PT76 - Cable tray (152mm x 76mm x 1.6mm)				
a)	Supply	M	55		
b)	Install	M	55		
10.4.2	PT76 - Horizontal / Internal / External Bend				
a)	Supply	No	10		
b)	Install	No	10		
	Low Voltage cable as may be laid in ground, wire channels, sleeves and / or on racking and in configurations as indicated on site as follows: 600/1000V Cable; Stranded Cu Conductors; PVC SWA PVC; (SANS 1507-3)				
10.4.3	70mm <sup>2</sup> x 4 core				
a)	Supply	M	60		
b)	Install	M	60		
	<i>Carried Forward to NEXT PAGE</i>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI**

**Section 4**  
**BOQ No.10: HVAC**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from PREVIOUS PAGE</i>				
10.4.4	35mm <sup>2</sup> x 4 core				
	a) Supply	M	45		
	b) Install	M	45		
10.4.5	25mm <sup>2</sup> x 4 core				
	a) Supply	M	20		
	b) Install	M	20		
10.4.6	2.5mm <sup>2</sup> x 3 core				
	a) Supply	M	280		
	b) Install	M	280		
	Cable terminations c/w glands, shrouds, termination lugs and fixing accessories for the above cables.				
10.4.7	70mm <sup>2</sup> x 4 core				
	a) Supply	No	2		
	b) Install	No	2		
10.4.8	35mm <sup>2</sup> x 4 core				
	a) Supply	No	2		
	b) Install	No	2		
10.4.9	25mm <sup>2</sup> x 4 core				
	a) Supply	No	4		
	b) Install	No	4		
10.4.10	2.5mm <sup>2</sup> x 3 core				
	a) Supply	No	28		
	b) Install	No	28		
<b>10.5</b>	<b><u>SWITCHING ACCESSORIES - GENERAL</u></b>				
	Outdoor weatherproof service outlets surface wall mounted, c/w polycarbonate outlet box, cover plate, mounting and fixing accessories:				
	<u>On Load Switch Disconnecter; 400Vac; IP55</u>				
10.5.1	30A Double Pole, (White)				
	a) Supply	No	13		
	b) Install	No	13		
10.5.2	100A Triple Pole, (White)				
	a) Supply	No	2		
	b) Install	No	2		
	Indoor service outlets surface wall mounted, c/w polycarbonate outlet box, cover plate, mounting and fixing accessories:				
	<u>On Load Switch Disconnecter; 250Vac; IP20</u>				
10.5.3	20A Double Pole, (White)				
	a) Supply	No	28		
	b) Install	No	28		
	<i>Carried Forward to NEXT PAGE</i>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4 BOQ No.10: HVAC

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from PREVIOUS PAGE</i>				
10.5.4	30A Double Pole, (White)				
	a) Supply	No	1		
	b) Install	No	1		
<b>10.6</b>	<b><u>EXCAVATIONS AND SLEEVES</u></b>				
	Excavate for cable and sleeve trenches including temporary support of sides, keeping excavations dry, backfilling and compaction. [Bedding under and fill around cable and sleeves comprising of sifted sand.]				
	<i>Note: Contractor to make own assesment of % picable/soft rock/hardrock. (Rate per running meter)</i>				
10.6.1	Trench 450mm wide / 600mm deep	M	110		
10.6.2	110mmØ PVC sleeve	M	20		
10.6.3	Repairs to concrete paving and/or tarred road crossing	M³	5		
	Cable-warning PVC chevron tape laid in cable trenches at a minimum depth of 300mm above the buried electrical cables.				
10.6.4	Cable Warning Tape				
	a) Supply	M	110		
	b) Install	M	110		
	Concrete cable route markers at each change in direction of the LV cable.				
10.6.5	Concrete route marker				
	a) Supply	No	4		
	b) Install	No	4		
<b>10.7</b>	<b><u>MANUFACTURE/SUPPLIER</u></b>				
	The Tenderer shall indicate the manufacturer/supplier of the equipment that will form part of his tender offer.				
10.7.1	<u>Distribution Switchboards:</u>				
(a)	Manufacturer / Supplier:				
(b)	Delivery time:				
10.7.2	<u>LV Cables:</u>				
(a)	Manufacturer / Supplier:				
(b)	Delivery time:				
<b>CARRIED FORWARD TO ITEM 10 - SUMMARY FOR BILLS OF QUANTITIES</b>					

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.11: Fire Water Pump Room & Medical Gas Plant

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
11.1	<p><b><u>STANDARD REGULATIONS AND CODES OF PRACTICE</u></b></p> <p>All low voltage electrical installation work, pertaining to the mechanical engineering systems associated with this project, shall be in accordance with the latest SANS Codes of Practice 10142-1 and in conjunction with:</p> <p><i>Occupational Health and Safety Act of 1993</i>  <i>Manufacturer's Specifications and Installation Instructions</i>  <i>Industry Standard Good Practices</i></p>				
11.2	<p><b><u>FIRE WATER PUMP ROOM &amp; MEDICAL GAS PLANT</u></b></p> <p>Supply, installation, test and commissioning of LV small power distribution and cable work associated with the new fire water pump room &amp; medical gas plant; and in conjunction with the Mechanical Engineer's design requirements.</p>				
11.3	<p><b><u>DISTRIBUTION SWITCHBOARDS</u></b></p> <p>New enclosures shall be powder coated, have a minimum IP35 rating (indoors), IP65 rating (outdoors) and be c/w steelwork, frames, sub-frames, chassis, covers and lockable doors.</p> <p>New distribution switchboards shall be of the specified enclosure, factory equipped and wired c/w power and control switchgear, busbars, internal wiring, auxillary equipment, fixing accessories, labelling, signage and allowance for 30% spare capacity.</p> <p>All new low voltage switchgear required to be installed, in existing and/or new distribution board enclosures, shall be of the CBI range, or equivalent and approved.</p>				
11.3.1	<p><b><u>DB-PR</u></b> (Fire Water Pump Room)</p> <p><i>Indoor * Surface Wall * Front Access * Bottom/Top Entry</i></p>				
(a)	<p>Design, manufacture, supply and delivery to site c/w the supply and equipping of associated switchgear, as tabled below:</p> <p><i>1 off DEHNgard DG M TT 275 Surge Arrester</i>  <i>1 off 100A * 3-Pole Isolator * Mains Disconnecter</i>  <i>1 off 40A * 3-Pole C/B * 6kA - Main Pump</i>  <i>1 off 15A * 3-Pole C/B * 6kA - Jockey Pump</i>  <i>1 off 20A * 1-Pole C/B * 6kA - Diesel Pump</i>  <i>1 off 63A * 2-Pole ELU * 6kA - Plugs</i>  <i>1 off 20A * 1-Pole C/B * 6kA - Plugs</i>  <i>1 off 10A * 2-Pole C/B * 6kA - Indoor Lights</i>  <i>1 off 10A * 2-Pole C/B * 6kA - Outdoor Lights via Photocel</i></p>	No	1		
(b)	Factory Acceptance Tests (FAT).	No	1		
(c)	Install new distribution board in position; connect all incoming supply and outgoing feeder cables and make good for commissioning.	No	1		
(d)	Labelling, signage of complete installation.	No	1		
(e)	Commissioning and Site Acceptance Tests (SAT)	No	1		
Carried Forward to <b>NEXT PAGE</b>					



# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.11: Fire Water Pump Room & Medical Gas Plant

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from PREVIOUS PAGE</i>				
11.3.2	<b>DB-MGP</b> (Medical Gas Plant Room) <i>Indoor * Surface Wall * Front Access * Bottom/Top Entry</i>				
(a)	Design, manufacture, supply and delivery to site c/w the supply and equipping of associated switchgear, as tabled below: 1 off DEHNgard DG M TT 275 Surge Arrester 1 off 160A * 3-Pole Isolator * Mains Disconnecter 1 off 45A * 3-Pole C/B * 6kA - Compressor 1 off 25A * 3-Pole C/B * 6kA - Vacuum 8 off 15A * 1-Pole C/B * 6kA - Dryers; Drains; Dewpoint; 1 off 63A * 2-Pole ELU * 6kA - Plugs 1 off 20A * 1-Pole C/B * 6kA - Plugs 1 off 10A * 2-Pole C/B * 6kA - Indoor Lights 1 off 10A * 2-Pole C/B * 6kA - Outdoor Lights via Photocel	No	1		
(b)	Factory Acceptance Tests (FAT).	No	1		
(c)	Install new distribution board in position; connect all incoming supply and outgoing feeder cables and make good for commissioning.	No	1		
(d)	Labelling, signage of complete installation.	No	1		
(e)	Commissioning and Site Acceptance Tests (SAT)	No	1		
11.3.3	<b>EXISTING MAIN LT PANEL</b> <i>Indoor * Floor Standing * Front Access * Bottom/Top Entry</i>				
(a)	Allow for the the supply and on-site installation of new outgoing feeder cable circuit breakers, as tabled below: i) 100A * 3-Pole C/B * 10kA - Feeder to DB-PR ii) 125A * 3-Pole C/B * 10kA - Feeder to DB-MGP	No No	1 2		
(b)	Connect all outgoing feeder cables and make good for commissioning.	No	3		
(c)	Labelling, signage of complete installation.	No	3		
11.4	<b>CABLE WORKS</b> Cable tray (pre-galvanised perforated) of the O-Line range, or equivalent and approved, c/w all bends, tees, splices, end caps and splicing accessories. Cable trays shall be supported every 1.5m (min) by an adequate support system.				
11.4.1	PT76 - Cable tray (114mm x 76mm x 1.6mm) a) Supply b) Install	M M	50 50		
11.4.2	PT76 - Horizontal / Internal / External Bend a) Supply b) Install	No No	10 10		
	<i>Carried Forward to NEXT PAGE</i>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI**

**Section 4**

**BOQ No.11: Fire Water Pump Room & Medical Gas Plant**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from PREVIOUS PAGE</i>				
	Low Voltage cable as may be laid in ground, wire channels, sleeves and / or on racking and in configurations as indicated on site as follows: 600/1000V Cable; Stranded Cu Conductors; PVC SWA PVC; (SANS 1507-3)				
11.4.3	35mm <sup>2</sup> x 4 core - Medical Gas Plant				
	a) Supply	M	100		
	b) Install	M	100		
11.4.4	16mm <sup>2</sup> x 4 core - Fire Water Pump Room				
	a) Supply	M	30		
	b) Install	M	30		
11.4.5	6mm <sup>2</sup> x 4 core - Main Pump // Compressor				
	a) Supply	M	25		
	b) Install	M	25		
11.4.6	4mm <sup>2</sup> x 4 core - Vacuum				
	a) Supply	M	12		
	b) Install	M	12		
11.4.7	2.5mm <sup>2</sup> x 4 core - Jockey Pump				
	a) Supply	M	15		
	b) Install	M	15		
11.4.8	2.5mm <sup>2</sup> x 3 core - Diesel Pump // Medical Gas Plant Units				
	a) Supply	M	95		
	b) Install	M	95		
	Cable terminations c/w glands, shrouds, termination lugs and fixing accessories for the above cables.				
11.4.9	35mm <sup>2</sup> x 4 core				
	a) Supply	No	2		
	b) Install	No	2		
11.4.10	16mm <sup>2</sup> x 4 core				
	a) Supply	No	2		
	b) Install	No	2		
11.4.11	6mm <sup>2</sup> x 4 core				
	a) Supply	No	4		
	b) Install	No	4		
11.4.12	4mm <sup>2</sup> x 4 core				
	a) Supply	No	2		
	b) Install	No	2		
11.4.13	2.5mm <sup>2</sup> x 4 core				
	a) Supply	No	2		
	b) Install	No	2		
	<i>Carried Forward to NEXT PAGE</i>				

# REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI

## Section 4

### BOQ No.11: Fire Water Pump Room & Medical Gas Plant

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from PREVIOUS PAGE</i>				
11.4.14	2.5mm <sup>2</sup> x 3 core				
	a) Supply	No	18		
	b) Install	No	18		
<b>11.5</b>	<b><u>SWITCHING ACCESSORIES - GENERAL</u></b>				
	Indoor service outlets surface wall mounted, c/w polycarbonate outlet box, cover plate, mounting and fixing accessories: <i>On Load Switch Disconnectors; 250Vac; IP20</i>				
11.5.1	20A Double Pole, (White) - Medical Gas Plant Units				
	a) Supply	No	8		
	b) Install	No	8		
11.5.2	30A Double Pole, (White) - Diesel Pump				
	a) Supply	No	1		
	b) Install	No	1		
	<i>On Load Switch Disconnectors; 400Vac; IP20</i>				
11.5.3	30A Triple Pole, (White) - Jockey Pump // Vacuum				
	a) Supply	No	2		
	b) Install	No	2		
11.5.4	60A Triple Pole, (White) - Main Pump // Compressor				
	a) Supply	No	2		
	b) Install	No	2		
<b>11.6</b>	<b><u>EXCAVATIONS AND SLEEVES</u></b>				
	Excavate for cable and sleeve trenches including temporary support of sides, keeping excavations dry, backfilling and compaction. [Bedding under and fill around cable and sleeves comprising of sifted sand.] <i>Note: Contractor to make own assesment of % picable/soft rock/hardrock. (Rate per running meter)</i>				
11.6.1	Trench 450mm wide / 600mm deep	M	105		
11.6.2	110mmØ PVC sleeve	M	20		
11.6.3	Repairs to concrete paving and/or tarred road crossing	M <sup>3</sup>	5		
	Cable-warning PVC chevron tape laid in cable trenches at a minimum depth of 300mm above the buried electrical cables.				
11.6.4	Cable Warning Tape				
	a) Supply	M	105		
	b) Install	M	105		
	<i>Carried Forward to NEXT PAGE</i>				

## Section 4

### BOQ No.11: Fire Water Pump Room & Medical Gas Plant

226

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI  
DISTRICT IN THE NORTH WEST PROVINCE**

**SECTION 4**  
**SUMMARY FOR BILLS OF QUANTITIES : ELECTRICAL SERVICES**

<b>BILL NO</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
<b>1</b>	<b>PRELIMINARY AND GENERAL</b>	
<b>2</b>	<b>COMPLIANCE CERTIFICATION (SANS 10142)</b>	
<b>3</b>	<b>DISTRIBUTION SWITCHBOARDS</b>	
<b>4</b>	<b>SMALL POWER INSTALLATIONS</b>	
<b>5</b>	<b>LIGHTING INSTALLATIONS</b>	
<b>6</b>	<b>NURSE CALL SYSTEMS</b>	
<b>7</b>	<b>SURGE &amp; LIGHTNING PROTECTION</b>	
<b>8</b>	<b>EMERGENCY POWER</b>	
<b>9</b>	<b>BULK SUPPLY</b>	
<b>10</b>	<b>HVAC</b>	
<b>11</b>	<b>FIRE WATER PUMP ROOM &amp; MEDICAL GAS PLANT</b>	
<b>14</b>	<b>CARRIED FORWARD TO FINAL SUMMARY</b>	

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 5**

**BOQ No. 1: Closed-Circuit Television Systems (CCTV)**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>1.1</b>	<b><u>STANDARD REGULATIONS AND CODES OF PRACTICE</u></b> All low voltage electrical installation work, pertaining to the CCTV systems associated with this project, shall be in accordance with the latest SANS Codes of Practice 10142-1 and in conjunction with: <i>Occupational Health and Safety Act of 1993</i> <i>Manufacturer's Specifications and Installation Instructions</i> <i>Industry Standard Good Practices</i>				
<b>1.2</b>	<b><u>CCTV INSTALLATION</u></b> Supply, installation, test and commissioning of a CCTV system in conjunction with the above standard regulations and codes of practice. Cameras, digital video recorders and network switches shall be of the Provison-ISR equipment and accessories, or equivalent and approved. <b><u>Cameras</u></b>				
1.2.1	I4-390AVF # 2MP 4 in 1 (AHD / TVI/ CVI / Analogue) Bullet Camera, 40m IR (4 LED Array), 1080P AHD or 960H Analogue, 1/3" Sony 2MP Sensor, 2.8-12mm Mega-Pixel Vari-focal Lens a) Supply	No	25		
	b) Install	No	25		
1.2.2	I3-320AVF # 2MP AHD Pro series IR 40M (3LED Array) 2.8-12mm Lens a) Supply	No	55		
	b) Install	No	55		
	<b><u>32+8 CH Dynamic Hybrid DVR</u></b>				
1.2.3	SH-32400A5-5L(1.5U) # 32CH 5MP Lite Half-Real time DVR, 16CH 1080P Real-Time, 4 in 1, AHD,HD-CVI,TVI or Analogue, Output: HDMI & VGA and CVBS, Audio In/Out, Alarm In/Out, 4 SATA (8TB), 400FPS, RS-485 a) Supply	No	3		
	b) Install	No	3		
	<b><u>1U Rack Mountable Power Supply</u></b>				
1.2.4	PR-20A16CH(1U) # 220Vac/12Vdc 20A rack mountable power supply a) Supply	No	6		
	b) Install	No	6		
	<b><u>Storage Hard Drive</u></b>				
1.2.5	Seagate SkyHawk # 8TB SATA 6Gb/s a) Supply	No	4		
	b) Install	No	4		
Carried Forward to <b>NEXT PAGE</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 5**

**BOQ No. 1: Closed-Circuit Television Systems (CCTV)**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
	<b><u>Uninterrupted Power Supply</u></b>				
1.2.6	2.0kVA single-phase in // single phase out				
	a) Supply	No	4		
	b) Install	No	4		
	<b><u>Desktop Computer</u></b>				
1.2.7	Desktop Computer as specified: Intel Core i5-7500T (2,7GHz 6MB), 8GB (1x8GB) 2400MHz DDR4, 19.5" HD Non Touch, 500GB 2.5inch Serial ATA (7,200 Rpm), 8x DVD+/-RW 9.5mm Optical Disk Drive, Windows 10 Pro (64bit) English, 3Yr Basic Onsite Service (Articulating Easel Stand)				
	a) Supply	No	1		
	b) Install	No	1		
	<b><u>Surveillance Screens / Monitors</u></b>				
1.2.8	65" UHD Smart TV c/w tilt wall mount bracket # Hisense 65B7100UW, or equivalent and approved.				
	a) Supply	No	3		
	b) Install	No	3		
1.2.9	32" HD LED TV c/w tilt wall mount bracket # Hisense 32N50HTS , or equivalent & approved.				
	a) Supply	No	1		
	b) Install	No	1		
1.2.10	24" Monitor (desk top) # Mecer LED , or equivalent & approved.				
	a) Supply	No	1		
	b) Install	No	1		
1.2.11	7" LCD Monitor <i>Display Size: 7.0 inches (16: 9)* Double-channel video input* Resolution: 640 x 480 RGB* Visual Angle: 130, Brightness: 400, Contrast: 350* TV type: Analog* TV System: PAL/ NTSC/ SECAM* Operation Temperature: -10-50 Celsius* Input Port: Double-channel video input* Function: OSD menu, rear view system, AV (CD, VCD, DVD, GPS, camera)</i>				
	a) Supply	No	7		
	b) Install	No	7		
	<b><u>Cable and Accessories</u></b>				
1.2.12	CAB-12US # Linkbasic 12U Swing Frame Wall Box				
	a) Supply	No	4		
	b) Install	No	4		
1.2.13	RG59-500 coaxial power cable (0.75mm) - 500m				
	a) Supply	No	12		
	b) Install	No	12		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 5**

**BOQ No. 1: Closed-Circuit Television Systems (CCTV)**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
1.2.14	HDMI cable (5m) - Ver1.4; 1080P+3D				
	a) Supply	No	4		
	b) Install	No	4		
1.2.15	PR-C13 # 3Pcs BNC plug c/w BNC plastic boot				
	a) Supply	No	300		
	b) Install	No	300		
1.2.16	PR-C08 # DC Jack - Male				
	a) Supply	No	300		
	b) Install	No	300		
1.2.17	PR-B55JB # Waterproof junction box for AHD & IP Cameras				
	a) Supply	No	100		
	b) Install	No	100		
	<b><u>Wiring Duct &amp; Conduit</u></b>				
	Wiring duct, conduit, mounting and fixing accessories as measured below, makes provision for both the CCTV installation work (BOQ E1) and Access Control installation work (BOQ E2)				
	Wiring Duct of the Cabstrut, or equivalent and approved. Surface wall mounted and/or suspended in ceiling void, c/w all elbows, tees, covers, splices, end caps, mounting fixtures, adaptors, clamps, hangers and accessories.				
1.2.18	P8000 - Wiring Duct				
	a) Supply	M	1020		
	b) Install	M	1020		
	Conduit, as may be required, to be surface mounted onto concrete/brickwork, c/w all jointing, wall boxes, couplings, bends, conduit boxes, loop-in boxes, saddles and mounting accessories.				
1.2.19	25mm - Galvanised				
	a) Supply	M	710		
	b) Install	M	710		
<b>1.3</b>	<b><u>MANAGEMENT AND OPERATIONS</u></b>				
	<b><u>Testing, Commissioning &amp; Hand-Over</u></b>				
1.3.1	Allow for all factors required for the inspections, testing, commissioning (inclusive of commissioning certificate) and handover of all the installed CCTV systems in conjunction with the above codes of practice.	Lot	1		
	<b><u>Maintenance &amp; Guarantee</u></b>				
1.3.2	All work performed and all material and equipment furnished, under this contract, shall be free from defects, and shall remain so, for a period of 12 months from the date of hand-over.	Lot	1		
	<i>Carried Forward to <b>NEXT PAGE</b></i>				



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 5**

**BOQ No. 1: Closed-Circuit Television Systems (CCTV)**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
1.3.3	<b><u>Documentation</u></b> Handing over of a comprehensive "As-built" Data Pack of the commissioned systems : Three (3) hard copies in A4-sized binders and one (1) soft copy on Disc.	Lot	1		
1.3.4	<b><u>Training</u></b> The contractor shall allow for a full-day training session with the client for the successfully operation and performance of first-line maintenance of the installed system/s.				
1.3.5	<b><u>Preliminary &amp; General Costs</u></b> Specialist Contractor - Health & Safety File	Lot	1		
1.3.6	Specialist Contractor - Travelling & accommodation	Lot	1		
<b>CARRIED FORWARD TO ITEM 1 - SUMMARY FOR BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 5**

**BOQ No. 2: Access Control (AC)**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>2.1</b>	<b><u>STANDARD REGULATIONS AND CODES OF PRACTICE</u></b> All low voltage electrical installation work, pertaining to the Access Control systems associated with this project, shall be in accordance with the latest SANS Codes of Practice 10142-1 and in conjunction with: <i>Occupational Health and Safety Act of 1993</i> <i>Manufacturer's Specifications and Installation Instructions</i> <i>Industry Standard Good Practices</i>				
<b>2.2</b>	<b><u>ACCESS CONTROL INSTALLATION</u></b> Supply, installation, test and commissioning of a Access Control system in conjunction with the above standard regulations and codes of practice.  Allowance for all trunking, conduit, mounting and fixing accessories measured elsewhere.  Controllers, readers, panels, door-closers, magnetic-locks shall be of the Saflec Systems / Centurion Sytems equipment and accessories, or equivalent and approved.  <b><u>Door Controller</u></b>				
2.2.1	SFSDC65000 # SDC-650 multiple door controller				
	a) Supply	No	4		
	b) Install	No	4		
	<b><u>Door Closers</u></b>				
2.2.2	EMAG180V1I: Magnetic Lock 180kg 12/24V Inward Swing c/w universal mounting bracket.				
	a) Supply	No	30		
	b) Install	No	30		
2.2.3	CP121V2: Battery 12V 1.2Ah rechargeable sealed lead-acid				
	a) Supply	No	30		
	b) Install	No	30		
2.2.4	CLOSEC060K: Cisa Door Closer (40-60kg)				
	a) Supply	No	30		
	b) Install	No	30		
2.2.5	CP4C2: Battery 12V 7.2Ah rechargeable sealed lead-acid				
	a) Supply	No	30		
	b) Install	No	30		
	<b><u>Readers</u></b>				
2.2.6	SSR-221: Take-on Reader (USB)				
	a) Supply	No	1		
	b) Install	No	1		
2.2.7	SSR-201: RS-485 Proximity Card Reader				
	a) Supply	No	30		
	b) Install	No	30		
	Carried Forward to <b>NEXT PAGE</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 5**

**BOQ No. 2: Access Control (AC)**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from PREVIOUS PAGE</i>				
2.2.8	PBSNOTUCH0: Touch-free Exit Sensor (Diffused Detection)				
	a) Supply	No	30		
	b) Install	No	30		
2.2.9	PRX125TGV0: Proximity Keyring Tag – 125Khz Gray				
	a) Supply	No	1000		
	b) Install	No	1000		
	<b><u>Intercom System</u></b>				
2.2.10	POLOH00WV1: Handset; Standard white				
	a) Supply	No	23		
	b) Install	No	23		
2.2.11	POLOE2G0V3: Entry panel with two Call Buttons				
	a) Supply	No	23		
	b) Install	No	23		
	<b><u>PC and Software</u></b>				
2.2.12	Desktop Computer as specified: Intel Core i5-7500T (2,7GHz 6MB), 8GB (1x8GB) 2400MHz DDR4, 19.5" HD Non Touch, 500GB 2.5inch Serial ATA (7,200 Rpm), 8x DVD+/-RW 9.5mm Optical Disk Drive, Windows 10 Pro (64bit) English, 3Yr Basic Onsite Service (Articulating Easel Stand)				
	a) Supply	No	1		
	b) Install	No	1		
2.2.13	Saflec Software: Professional Edition SSS-130				
	a) Supply	No	1		
	b) Install	No	1		
	<b><u>Uninterrupted Power Supply</u></b>				
2.2.14	2.0kVA (single-phase)				
	a) Supply	No	1		
	b) Install	No	1		
	<b><u>Cable and Accessories</u></b>				
2.2.15	RS PRO 8-Core Security Cable Polyvinyl Chloride PVC Sheath, coaxial power cable (0.19mm <sup>2</sup> ) - 100m				
	a) Supply	No	30		
	b) Install	No	30		
2.2.16	LB-SM1 # Linkbasic Cat5e Single Surface Mount Box				
	a) Supply	No	1		
	b) Install	No	1		
2.2.17	UTP-500S: CAT5e, solid shielded FTP cable - 500m				
	a) Supply	No	1		
	b) Install	No	1		
	<i>Carried Forward to NEXT PAGE</i>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 5**

**BOQ No. 2: Access Control (AC)**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from PREVIOUS PAGE</i>				
2.2.18	UTP CAT5e patch cable - 3m				
	a) Supply	No	1		
	b) Install	No	1		
2.2.19	UTP CAT5e patch cable - 1m				
	a) Supply	No	2		
	b) Install	No	2		
2.2.20	RJ45 Cat5e Shielded UTP Modular Plug c/w Grey Boot				
	a) Supply	No	4		
	b) Install	No	4		
<b>2.3</b>	<b><u>MANAGEMENT AND OPERATIONS</u></b>				
	<b><u>Testing, Commissioning &amp; Hand-Over</u></b>				
2.3.1	Allow for all factors required for the inspections, testing, commissioning (inclusive of commissioning certificate) and handover of all the installed access control systems in conjunction with the above codes of practice.	Lot	1		
	<b><u>Maintenance &amp; Guarantee</u></b>				
2.3.2	All work performed and all material and equipment furnished, under this contract, shall be free from defects, and shall remain so, for a period of 12 months from the date of hand-over.	Lot	1		
	<b><u>Documentation</u></b>				
2.3.3	Handing over of a comprehensive "As-built" Data Pack of the commissioned systems : Three (3) hard copies in A4-sized binders and one (1) soft copy on Disc.	Lot	1		
	<b><u>Training</u></b>				
2.3.4	The contractor shall allow for a full-day training session with the client for the successfully operation and performance of first-line maintenance of the installed system/s.				
	<b><u>Preliminary &amp; General Costs</u></b>				
2.3.5	Health & Safety File	Lot	1		
2.3.6	Travelling & accommodation	Lot	1		
<b>CARRIED FORWARD TO ITEM 2 - SUMMARY FOR BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 5**

**BOQ No. 3: Fire Detection & Alarm (FD)**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3.1	<p><b><u>STANDARD REGULATIONS AND CODES OF PRACTICE</u></b></p> <p>All low voltage electrical installation work, pertaining to the Fire Detection systems associated with this project, shall be in accordance with the latest SANS Codes of Practice 10142-1; SANS 10139:2012 Fire Detection for Buildings; SANS 1475 Certification and in conjunction with:</p> <p><i>Occupational Health and Safety Act of 1993</i>  <i>Manufacturer's Specifications and Installation Instructions</i>  <i>Industry Standard Good Practices</i></p>				
3.2	<p><b><u>INSTALLATION CONTRACTOR REQUIREMENTS</u></b></p> <p>The Contractor shall be a member of the Fire Detection Installers Association (FDIA).</p> <p>All contractor staff used on this site shall be registered with The South African Qualification &amp; Certification Committee (SAQCC) Fire together with proof of training on the equipment they install.</p>				
3.3	<p><b><u>FIRE DETECTION &amp; ALARM INSTALLATION</u></b></p> <p>Supply, installation, test and commissioning of a fire detection &amp; alarm systems in conjunction with the above standard regulations and codes of practice.</p> <p><u>Intelligent Systems</u></p> <p>Intelligent fire control panels shall be from the Technoswitch TC5400 series analogue addressable types, or equivalent and approved.</p> <p>All fire detectors shall be Apollo XP95 addressable types, or equivalent and approved.</p> <p><u>Conventional Systems</u></p> <p>Conventional fire control panels shall be of the Technoswitch TC800 range, or equivalent and approved.</p> <p>All fire detectors shall be of the Sensomag conventional types, or equivalent and approved.</p> <p><u>Battery Backup</u></p> <p>Fire control panels shall have battery backup to ensure continued operation for 24hrs under mains power failure. The contractor shall size batteries in accordance with SANS 10139 calculations.</p> <p><u>Cable / Conduit</u></p> <p>New PH30 cables shall be installed in 25mmØ PVC conduit throughout each building in an A-Class loop configuration. The outgoing leg of the loop shall be kept separate from the return leg.</p> <p><u>Tender Pricing</u></p> <p>Prices given in this bill shall be net cost of equipment and materials supplied and installed on site and shall include profit, overheads, financing, insurance and guarantee costs</p>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 5**

**BOQ No. 3: Fire Detection & Alarm (FD)**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3.3.1	<b><u>Analogue Addressable Fire Alarm Panel</u></b> Allow for the procurement, delivery, installation, connection, testing and commissioning of a six loop analogue addressable fire detection and alarm system control panel.	No	1		
3.3.2	<b><u>Standby Batteries</u></b> Allow for the procurement, delivery, installation, connection, testing and commissioning of stand by batteries for 24 hour back up and 30 minutes under full alarm load.	No	2		
3.3.3	<b><u>Lightning Protection Units</u></b> Allow for procurement and installation of lightning protection units on the mains power supply to the fire alarm panel.	No	1		
	Allow for procurement and installation of lightning protection units on the cable loops at the fire alarm panel.	No	6		
3.3.4	<b><u>Logbook &amp; Block Plan</u></b> Provide logbook in a holder installed adjacent to master fire panel; and a zone diagram and associated signage, laminated and framed behind glass for all fire panels.	Lot	1		
3.3.5	<b><u>Analogue Addressable Fire Detectors &amp; Bases</u></b> Allow for the procurement, installation, testing and commissioning of analogue addressable fire detectors as follows:				
	a) Optical detectors	No	430		
	b) Heat detectors	No	20		
	c) Multi criteria detectors	No	1		
3.3.6	<b><u>Analogue Addressable Manual Call Points</u></b> Allow for the procurement, installation, testing and commissioning of analogue addressable manual fire alarm call points with re-settable elements and protective covers	No	36		
3.3.7	Allow for the procurement, installation, testing and commissioning of analogue addressable <u>waterproof</u> manual fire alarm call points with re-settable elements and protective covers.	No	1		
3.3.8	<b><u>Line Isolators</u></b> Allow for the procurement, installation, testing and commissioning of line isolators.	No	16		
3.3.9	<b><u>Strobe Lights</u></b> Allow for the procurement, installation, testing and commissioning of addressable strobe lights.	No	8		
3.3.10	<b><u>Siren/Strobe</u></b> Allow for the procurement, installation, testing and commissioning of addressable fire sirens and strobes.	No	35		
3.3.11	<b><u>Fire Resistive Cabling</u></b> Allow for adequate cable tested to EN50200 for the fire detection system to specification.	M	9000		
	Carried Forward to <b>NEXT PAGE</b>				

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 5**

**BOQ No. 3: Fire Detection & Alarm (FD)**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from PREVIOUS PAGE</i>				
<b>3.4</b>	<b><u>WIRING DUCT &amp; CONDUIT</u></b>				
	Wiring duct of the Cabstrut, or equivalent and approved. Surface wall mounted and/or suspended in ceiling void, c/w all elbows, tees, covers, splices, end caps, mounting fixtures, adaptors, clamps, hangers and accessories.				
3.4.1	P8000 - Wiring duct	M	500		
	Conduit, as may be required, to be surface mounted onto concrete/brickwork, c/w all jointing, short lengths, wall boxes, couplings, bends, conduit boxes, loop-in boxes, saddles and mounting accessories.				
3.4.2	25mm - PVC				
	a) Supply	M	5400		
	b) Install	M	5400		
3.4.3	25mm - Galvanised				
	a) Supply	M	230		
	b) Install	M	230		
<b>3.5</b>	<b><u>MANAGEMENT AND OPERATIONS</u></b>				
	<b><u>Testing, Commissioning &amp; Hand-Over</u></b>				
3.5.1	Allow for all factors required for the inspections, testing, commissioning (inclusive of commissioning certificate) and handover of all the installed fire detection & alarm systems in conjunction with the above codes of practice. <i>Note: Hand-over will only be accepted on completion of an operational soak test for each individual system (i.e. 7-day continuous fault-free operational test)</i>	Lot	1		
	<b><u>Maintenance &amp; Guarantee</u></b>				
3.5.2	All work performed and all material and equipment furnished, under this contract, shall be free from defects, and shall remain so, for a period of 12 months from the date of hand-over.	Lot	1		
	<b><u>Documentation</u></b>				
3.5.3	Handing over of a comprehensive "As-built" Data Pack of the commissioned systems : Three (3) hard copies in A4-sized binders and one (1) soft copy on Disc.	Lot	1		
	<b><u>Training</u></b>				
3.5.4	The contractor shall allow for a full-day training session with the client for the successfully operation and performance of first-line maintenance of the installed system/s.				
	<b><u>Preliminary &amp; General Costs</u></b>				
3.5.5	Health & Safety File	Lot	1		
3.5.6	Travelling & accommodation	Lot	1		
<b>CARRIED FORWARD TO ITEM 3 - SUMMARY FOR BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 5**

**BOQ No. 4: Uninterrupted Power Supply (UPS)**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>4.1</b>	<b><u>STANDARD REGULATIONS AND CODES OF PRACTICE</u></b> All low voltage electrical installation work, pertaining to the UPS systems associated with this project, shall be in accordance with the latest SANS Codes of Practice 10142-1 and in conjunction with: <i>Occupational Health and Safety Act of 1993</i> <i>Manufacturer's Specifications and Installation Instructions</i> <i>Industry Standard Good Practices</i>				
<b>4.2</b>	<b><u>UPS INSTALLATION</u></b> Allow for the supply, installation, test and commissioning of an uninterruptible power supply system (UPS) in conjunction with the above standard regulations and codes of practice.  The UPS shall be of the Eaton 9355 tower range, or equivalent and approved, and a three-phase, on-line, double conversion type c/w internal battery backup of 20 minutes (minimum).				
4.2.1	10kVA UPS (3-Phase In // 3-Phase Out) a) Supply b) Install  The UPS shall be of the Eaton 9155 tower range, or equivalent and approved, and a three-phase, on-line, double conversion type c/w internal battery backup of 20 minutes (minimum).	No No	1 1		
4.2.2	15kVA UPS (3-Phase In // 1-Phase Out) a) Supply b) Install  <b><u>Note:</u></b> <i>Supply and installation of distribution board and field isolators as required for installation of the above UPS system is by others (elsewhere measured in the electrical bills of quantities).</i>	No No	2 2		
<b>4.3</b>	<b><u>MANAGEMENT AND OPERATIONS</u></b> <b><u>Testing, Commissioning &amp; Hand-Over</u></b>				
4.3.1	Allow for all factors required for the inspections, testing, commissioning (inclusive of commissioning certificate) and handover of all the installed UPS systems in conjunction with the above codes of practice.	Lot	1		
4.3.2	<b><u>Maintenance &amp; Guarantee</u></b> All work performed and all material and equipment furnished, under this contract, shall be free from defects, and shall remain so, for a period of 12 months from the date of hand-over.	Lot	1		
4.3.3	<b><u>Documentation</u></b> Handing over of a comprehensive "As-built" Data Pack of the commissioned systems : Three (3) hard copies in A4-sized binders and one (1) soft copy on Disc.	Lot	1		
	Carried Forward to <b>NEXT PAGE</b>				



**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**Section 5**

**BOQ No. 4: Uninterrupted Power Supply (UPS)**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>Brought Forward from <b>PREVIOUS PAGE</b></i>				
4.3.4	<p><b><u>Training</u></b></p> <p>The contractor shall allow for a half-day training session with the client for the successfully operation and performance of first-line maintenance of the installed system/s.</p>				
	<b><u>Preliminary &amp; General Costs</u></b>				
4.3.5	Specialist Contractor - Health & Safety File	Lot	1		
4.3.6	Specialist Contractor - Travelling & accommodation	Lot	1		
<b>CARRIED FORWARD TO ITEM 4 - SUMMARY FOR BILLS OF QUANTITIES</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI MOMPATI  
DISTRICT IN THE NORTH WEST PROVINCE**

**SECTION 5**

**SUMMARY FOR BILLS OF QUANTITIES : ELECTRONIC SERVICES**

BILL NO	DESCRIPTION	AMOUNT
1	CCTV	
2	ACCESS CONTROL	
3	FIRE DETECTION	
4	UPS	
	CARRIED TO FINAL SUMMARY	

Item	Description	Unit	Qty	Rate	Amount
1.1	<b><u>BILL 01:</u></b> <b><u>AIR-CONDITIONING REPAIR &amp; MAINTENANCE</u></b> <b><u>SECTION 01: SUPPLY AND INSTALL CHILLED WATER SYSTEM</u></b> <b><u>Fan Coil Units: Supply and install two pipe ducted hide away units with noise rating less than NC35 complete with chilled &amp; hot water coil, provision for fresh air supply controlled with an air damper, and return air grille as shwon on the drawings.</u></b>				
1.1.1	<u>Medical Ward</u>				
(a)	Supply ducted hide away unit with 7.4 kW Cooling, 15.7 kW Heating, 0.36 l/s water flow, and 420 l/s air flow rate.	Item	1		
(b)	Install ducted hide away unit to full operation	Item	1		
1.1.2	<u>Mal Nutrition Ward</u>				
(a)	Supply ducted hide away unit with 7.4 kW Cooling, 15.7 kW Heating, 0.36 l/s water flow, and 420 l/s air flow rate.	Item	1		
(b)	Install ducted hide away unit to full operation	Item	1		
1.1.3	<u>Gastro Ward</u>				
(a)	Supply ducted hide away unit with 5.8 kW Cooling, 12.7 kW Heating, 0.28 l/s water flow, and 420 l/s air flow rate.	Item	1		
(b)	Install ducted hide away unit to full operation	Item	1		
1.1.4	<u>Medical Ward</u>				
(a)	Supply ducted hide away unit with 5.8 kW Cooling, 12.7 kW Heating, 0.28 l/s water flow, and 420 l/s air flow rate.	Item	1		
(b)	Install ducted hide away unit to full operation	Item	1		
Bill No.1: Supply and Install Chilled Water System <span style="float: right;">Carried Forward</span>					

Item	Description	Unit	Qty	Rate	Amount
Bill No.1: Supply and Install Chilled Water System <b>Brought Forward</b>					
1.1.5	<u>Mal Nutrition Ward</u>				
(a)	Supply ducted hide away unit with 5.8 kW Cooling, 12.7 kW Heating, 0.28 l/s water flow, and 420 l/s air flow rate.	Item	1		
(b)	Install ducted hide away unit to full operation	Item	1		
1.1.6	<u>Surgical Ward 01</u>				
(a)	Supply ducted hide away unit with 5.8 kW Cooling, 12.7 kW Heating, 0.28 l/s water flow, and 420 l/s air flow rate.	Item	1		
(b)	Install ducted hide away unit to full operation	Item	1		
1.1.7	<u>Surgical Ward 02</u>				
(a)	Supply ducted hide away unit with 5.8 kW Cooling, 12.7 kW Heating, 0.28 l/s water flow, and 420 l/s air flow rate.	Item	1		
(b)	Install ducted hide away unit to full operation	Item	1		
1.1.8	<u>Supply and install ducting with supports, sound attenuators (before &amp; after concealed ducted unit) external insulation, adaptor pieces, diffusers, and all ancillaries to allow for full operation of concealed ducted hide away units as specified and as shown on the drawings. All selected equipment to ensure a noise rating less than NC35.</u>				
(a)	Flexible coupling before and after the unit connecting to supply and return ducts, suitably sized to match the necessary units and adaptor pieces	No	16		
(b)	Adaptor pieces for the supply and return air streams	No	16		
(c)	Ø 100 spiral duct complete with insulation	m	72		
(d)	Ø 150 spiral duct complete with insulation	m	140		
(e)	Ø 200 spiral duct complete with insulation	m	12		
(f)	Ø 250 spiral duct complete with insulation	m	15		
(g)	Suitably sized return air grille for 360 l/s	No	5		
(h)	Suitably sized return air grille for 430 l/s	No	2		
(i)	100 l/s supply air diffuser	No	28		
(j)	Install complete duct system per unit to full operation	No	8		
Bill No.1: Supply and Install Chilled Water System <b>Carried Forward</b>					

Item	Description	Unit	Qty	Rate	Amount
Bill No.1: Supply and Install Chilled Water System <b>Brought Forward</b>					
	<b><u>Fan Coil Units: Supply and install two pipe 4 way blow cassette units with noise rating less than NC35 complete with chilled &amp; hot water coil, decorating panel, and provision for fresh air supply controlled with an air damper.</u></b>				
1.1.17	<u>Neo Natal Ward</u>				
(a)	Supply 4 way blow cassette unit with 6.0 kW Cooling, 7.3 kW Heating, 0.35 l/s water flow, and 315 l/s air flow rate.	Item	1		
(b)	Install cassette unit to full operation	Item	1		
1.1.18	<u>Burns Ward</u>				
(a)	Supply 4 way blow cassette unit with 6.0 kW Cooling, 7.3 kW Heating, 0.35 l/s water flow, and 315 l/s air flow rate.	Item	1		
(b)	Install cassette unit to full operation	Item	1		
1.1.19	<u>Duty Room</u>				
(a)	Supply 4 way blow cassette unit with 6.0 kW Cooling, 7.3 kW Heating, 0.35 l/s water flow, and 315 l/s air flow rate.	Item	1		
(b)	Install cassette unit to full operation	Item	1		
1.1.20	<u>Store</u>				
(a)	Supply 4 way blow cassette unit with 6.0 kW Cooling, 7.3 kW Heating, 0.35 l/s water flow, and 315 l/s air flow rate.	Item	1		
(b)	Install cassette unit to full operation	Item	1		
1.1.21	<u>First Floor - Isolation Ward</u>				
(a)	Supply 4 way blow cassette unit with 6.0 kW Cooling, 7.3 kW Heating, 0.35 l/s water flow, and 315 l/s air flow rate.	Item	1		
(b)	Install cassette unit to full operation	Item	1		
Bill No.1: Supply and Install Chilled Water System <b>Carried Forward</b>					

Item	Description	Unit	Qty	Rate	Amount
Bill No.1: Supply and Install Chilled Water System <b>Brought Forward</b>					
1.1.22	<u>Ground Floor - Isolation Ward</u>				
(a)	Supply 4 way blow cassette unit with 6.0 kW Cooling, 7.3 kW Heating, 0.35 l/s water flow, and 315 l/s air flow rate.	Item	1		
(b)	Install cassette unit to full operation	Item	1		
1.1.23	<u>Play Room</u>				
(a)	Supply 4 way blow cassette unit with 6.0 kW Cooling, 7.3 kW Heating, 0.35 l/s water flow, and 315 l/s air flow rate.	Item	1		
(b)	Install cassette unit to full operation	Item	1		
1.1.24	<u>Ward Office</u>				
(a)	Supply 4 way blow cassette unit with 6.0 kW Cooling, 7.3 kW Heating, 0.35 l/s water flow, and 315 l/s air flow rate.	Item	1		
(b)	Install cassette unit to full operation	Item	1		
1.1.25	<u>Duty Room 01</u>				
(a)	Supply 4 way blow cassette unit with 6.0 kW Cooling, 7.3 kW Heating, 0.35 l/s water flow, and 315 l/s air flow rate.	Item	1		
(b)	Install cassette unit to full operation	Item	1		
1.1.25	<u>Dressing Room</u>				
(a)	Supply 4 way blow cassette unit with 6.0 kW Cooling, 7.3 kW Heating, 0.35 l/s water flow, and 315 l/s air flow rate.	Item	1		
(b)	Install cassette unit to full operation	Item	1		
Bill No.1: Supply and Install Chilled Water System <b>Carried Forward</b>					

Item	Description	Unit	Qty	Rate	Amount
Bill No.1: Supply and Install Chilled Water System <b>Brought Forward</b>					
	<b><u>Fan Coil Units: Supply and install two pipe 1 way blow cassette units with noise rating less than NC35 complete with chilled &amp; hot water coil, decorating panel, and provision for fresh air supply controlled with an air damper.</u></b>				
1.1.27	<u>Visitor's Room</u>				
(a)	Supply 1 way blow cassette unit with 2.6 kW Cooling, 2.9 kW Heating, 0.14 l/s water flow, and 110 l/s air flow rate.	Item	1		
(b)	Install cassette unit to full operation	Item	1		
1.1.28	<u>Ward 01</u>				
(a)	Supply 1 way blow cassette unit with 2.6 kW Cooling, 2.9 kW Heating, 0.14 l/s water flow, and 110 l/s air flow rate.	Item	1		
(b)	Install cassette unit to full operation	Item	1		
1.1.29	<u>Ward 02</u>				
(a)	Supply 1 way blow cassette unit with 2.6 kW Cooling, 2.9 kW Heating, 0.14 l/s water flow, and 110 l/s air flow rate.	Item	1		
(b)	Install cassette unit to full operation	Item	1		
1.1.30	<u>Emergency Recovery Room</u>				
(a)	Supply 1 way blow cassette unit with 2.6 kW Cooling, 2.9 kW Heating, 0.14 l/s water flow, and 110 l/s air flow rate.	Item	1		
(b)	Install cassette unit to full operation	Item	1		
Bill No.1: Supply and Install Chilled Water System <b>Carried Forward</b>					

Item	Description	Unit	Qty	Rate	Amount
Bill No.1: Supply and Install Chilled Water System <b>Brought Forward</b>					
1.1.31	<b><u>Wired Remote Controller</u></b> Supply wall mounted remote controller complete with necessary wiring to suite quantity of unit and suitably wired as shown on the drawings.				
(a)	Wired remote controller	No	24		
(b)	Install & commission group controllers to full operation	No	24		
1.1.32	<b><u>Air Cooled Chilled Water Units: Allow for the design, supply, delivery, rigging into position, installation, commissioning, and testing to full operation of Air Cooled Chilled Water Unit of capacity indicated herein, complete with VSD primary pumps, piping, electrical controls &amp; wiring, and flexible couplings as shown on the drawings and as specified.</u></b> Supply 65 kW Cooling Capacity, 3.3 l/s water flow, COP of 2.5, and 7 °C & 12 °C leaving & returning water temperatures, respectively.				
(a)		No	2		
(b)	Install Chiller	No	2		
1.1.33	<b><u>Complete supply and installation of new chilled water circulation pumps for main pipe network as indicated on</u></b>				
(a)	Supply pumps for 10 l/s @ 6m head	No	2		
(b)	Install pumps to full operation	No	2		
(c)	Supply VSDs to control with pressure difference sensors	No	2		
(d)	Install and commission VSD to full operation	No	2		
1.1.34	<b><u>Valves, gauges, ancillaries, etc (butterfly valves for piping &gt; 3 inch; ball valves for piping &lt; 3 inch piping)</u></b>				
(a)	Supply 65mm valve	No	2		
(b)	Install 65mm valve	No	2		
(c)	Supply 50mm diameter valve	No	3		
(d)	Install 50mm diameter valve	No	3		
(e)	Supply 25mm diameter valve	No	24		
(f)	Install 25mm diameter valve	No	24		
Bill No.1: Supply and Install Chilled Water System <b>Carried Forward</b>					



Item	Description	Unit	Qty	Rate	Amount
Bill No.1: Supply and Install Chilled Water System <b>Brought Forward</b>					
(g)	Supply pressure gauge	No	4		
(h)	Install pressure gauge	No	4		
(i)	Supply 65 mm diameter strainers	No	2		
(j)	Install 65 mm diameter strainers	No	2		
(k)	Supply 50 mm diameter flexible connectors, for chillers	No	4		
(l)	Install 50 mm diameter flexible connectors, for chillers	No	4		
(m)	Supply 25 mm diameter non-return valves, for FCUs	No	2		
(n)	Install 25 mm diameter non-return valves, for FCUs	No	2		
(o)	Supply Thermometers	No	4		
(p)	Install Thermometers	No	4		
(q)	Supply 30 litre Hydraulic accumulator (for 12 litre acceptance volume)	No	1		
(r)	Install 30 litre Hydraulic accumulator (for 12 litre acceptance volume)	No	1		
(s)	Supply inline pipe water flow indicator for diam 65 mm pipe	No	1		
(t)	Install inline pipe water flow indicator for diam 65 mm pipe	No	1		
(u)	Supply three (3) way valve for fan coil units located at end of water supply line	No	3		
(v)	Install three (3) way valve for fan coil units located at end of water supply line	No	3		
(w)	Supply PRV for max 8 bar range	No	3		
(x)	Install PRV for max 8 bar range	No	3		
(y)	Supply 65 mm diameter manual circuit balancing valve (CBV). Ball valve CBVs are preferred over globe valves for lower pressure drop.	No	1		
(z)	Install 65 mm diameter manual circuit balancing valve (CBV). Ball valve CBVs are preferred over globe valves for lower pressure drop.	No	1		
Bill No.1: Supply and Install Chilled Water System <b>Carried Forward</b>					

Item	Description	Unit	Qty	Rate	Amount
Bill No.1: Supply and Install Chilled Water System <b>Brought Forward</b>					
1.1.35	<b><u>Chilled Water Piping: Mild steel piping or similar approved pipes in plantrooms including all required bends and flanges, also painting and colour coding of pipes as per the specification of the Mechanical Engineer</u></b>				
(a)	Supply to DN65 Pipes	m	60		
(b)	Install to DN65 Pipes	m	60		
(c)	Supply DN50 Pipes	m	240		
(d)	Install to DN50 Pipes	m	240		
(e)	Supply DN25 Pipes	m	140		
(f)	Install to DN25 Pipes	m	140		
1.1.36	<b><u>Insulation: to mild steel or similar approved pipes and fittings all as per the detailed specification of the</u></b>				
(a)	Supply to DN65 Pipes	m	60		
(b)	Install to DN65 Pipes	m	60		
(c)	Supply to DN50 Pipes	m	240		
(d)	Install to DN50 Pipes	m	240		
(e)	Supply to DN25 Pipes	m	140		
(f)	Install to DN25 Pipes	m	140		
1.1.37	<b><u>Drawings and Manuals: Allow for the preparation of general arrangement drawings, shop drawings / fabrication drawings, as built drawings, together with the O&amp;M manuals, all to be submitted to the Mechanical Engineer for approval</u></b>				
(a)	Prepare and submit soft copy "shop drawings"	sum	1		
(b)	Prepare and submit three (3) sets hard copy "as-builts"	sum	1		
(c)	Operating & Maintenance Manuals, three (3) sets	sum	1		
Bill No.1: Supply and Install Chilled Water System <b>Carried Forward</b>					

Item	Description	Unit	Qty	Rate	Amount
Bill No.1: Supply and Install Chilled Water System <b>Brought Forward</b>					
1.1.38	<b><u>Allow for the testing and commissioning of the entire Chilled Water system, ensuring the system is fully functional &amp; training is provided, all as per the requirements of the Mechanical Engineer</u></b>				
(a)	Allow for commissioning specialist / commissioning authority complete with travelling, disbursements, training of operators during commissioning, and appropriate commissioning equipment for each Chilled Water project area completely as specified.	ea	3		
(b)	Prepare and submit commissioning reports	ea	3		
1.1.39	<b><u>Building Management System: Allow for BMS installation as shown on the drawings and as specified.</u></b>				
(a)	Supply and install a PLC network complete with field wiring and desktop monitoring computer fully loaded with necessary software (no monthly licencing fees will be accepted). Bespoke HMI to be designed and supplied by the Contractor in the MCC & BMS computer as approved by the Engineer.	sum	1		
(b)	Allow for necessary field sensors completely calibrated with supporting documentation				
	i. Air temperature Sensor	each	30		
	ii. Humidity	each	18		
	iii. Flow Sensor	each	30		
	iv. Steam Flow sensor	each	1		
	v. Water Pressure Sensor	each	32		
	vii. Co2 Sensor	each	10		
	viii. Water Temperature Sensor	each	4		
	ix. Air pressure sensor	each	26		
	x. Amp meter on Chiller	each	1		
	xi. Power meter on Chiller	each	1		
(c)	Document and commission to full operating, each project area	each	3		
Bill No.1: Supply and Install Chilled Water System <b>Carried Forward to Bill 1 Summary</b>					

Item	Description	Unit	Qty	Rate	Amount
	<b><u>SPLIT UNIT (DX) AIR-CONDITIONING INSTALLATIONS</u></b>				
1.2	<b><u>Direct Expansion Midwall Units</u></b>				
1.2.1	<b><u>Design, Supply, Install, and commissioning Mid Wall direct expansion heat pump units complete with drain pipes, drain pumps (where necessary), enclosing trunking painted to match the colour of the wall, mounting brackets, vibration absorbing material, completely as specified and as shown on the drawings.</u></b>				
(a)	Supply 3.2 kW Mid Wall Unit	No	5		
(d)	Install Midwall Unit	No	5		
1.2.2	<b><u>Design, Supply, Install, and commissioning 4 way blow direct expansion heat pump units complete with drain pipes, drain pumps (where necessary), enclosing trunking painted to match the colour of the wall, mounting brackets, vibration absorbing material, completely as specified and as shown on the drawings.</u></b>				
(a)	Supply 6.0 kW Cassette Unit	No	6		
(b)	Install Cassette Unit	No	6		
1.2.3	<b><u>Supply and install a Concealed Ducted Ceiling Unit and a Cassette Unit complete with mounting brackets, vibration absorbing mountings, flexible coupling, return air grille, rectangular-to-round adaptor piece, drain &amp; refrigerant piping, painted ducting with supports, internal insulation, adaptor pieces, diffusers, and all ancillaries to allow for full operation as specified and as shown on the drawings.</u></b>				
(a)	Supply and install a Concealed Ducted Ceiling Unit: 12.5 kW Cooling Capacity, 14.0 kW Heating Capacity, 650 l/s air flow rate, and 200 Pa Static Pressure to full operation complete with duct and diffuser system.	No	2		
(b)	Install Concealed Ducted Ceiling Unit	No	2		
Bill No.1: Split Unit Air-Conditioning Installation					Carried Forward

Item	Description	Unit	Qty	Rate	Amount
Bill No.1: Split Unit Air-Conditioning Installation <b>Brought Forward</b>					
1.2.4	<u>Supply and install ducting with supports, sound attenuators (before &amp; after concealed ducted unit) external insulation, adaptor pieces, diffusers, and all ancillaries to allow for full operation of concealed ducted hide away units as specified and as shown on the drawings. All selected equipment to ensure a noise rating less than NC35.</u>				
(a)	Flexible coupling before and after the unit connecting to supply and return ducts, suitably sized to match the necessary units and adaptor pieces	No	6		
(b)	Adaptor pieces for the supply and return air streams	No	6		
(c)	Ø 150 spiral duct complete with insulation	m	140		
(d)	Ø 200 spiral duct complete with insulation	m	12		
(e)	Suitably sized return air grille for 360 l/s	No	1		
(f)	Suitably sized return air grille for 430 l/s	No	2		
(g)	100 l/s supply air diffuser	No	12		
(h)	Install complete duct system per unit to full operation	No	3		
Bill No.1: Split Unit Air-Conditioning Installation <b>Carried to Bill No.1 Summary</b>					

Item	Description	Unit	Qty	Rate	Amount
1.3	<b><u>PLANNED MAINTENANCE</u></b>				
	<b><u>Allow for a 12 month Maintenance period of the entire system, as per the specification of the Mechanical Engineer</u></b>				
	(a) Allow Major Maintenance Intervention every 3months on Chilled Water Installations	Month	4		
	(b) Allow for Minor Maintenance and Cleaning on the Chilled Water Installations every month	Month	8		
	(c) Allow Major Maintenance Intervention every 3months on DX Installations	Month	4		
(d)	Allow for Minor Maintenance and Cleaning on the DX Installations every month	Month	8		
Bill No.1: Planned Maintenance					Carried to Bill No.1 Summary

Item	Description	Unit	Qty	Rate	Amount
	<b>BILL NO.3: SUMMARY</b>				
1.1	Chilled Water Air-conditioning				
1.2	DX Air Conditioning Installation				
1.3	Planned Maintenance				
<b>Bill 1: Air-Conditioning Installation: Total Carried to Section Summary Page</b>					

Item	Description	Unit	Qty	Rate	Amount
	<b><u>BILL 02: VENTILATION REPAIR &amp; MAINTENANCE</u></b>				
2.1	<b><u>Design, Supply, Install, and Commission fresh air system complete with Centrifugal Fans, sound attenuators before &amp; after fan NC35 indoors, supports, ducting, flexible couplings, filters box, primary filters, as specified and as shown on the drawings. Allow for permanent "on" power &amp; interlock to fire system.</u></b>				
2.1.1	<u>Fresh Air System: Visitors, Medical Ward, Mal Nutrition, Gastro, and Neo Natal Wards</u>				
(a)	550 x 500 Weather louver	No	1		
(b)	Fresh air filter box complete with primary filter	No	1		
(c)	Inline duct fan for 480 l/s complete with VSD	No	1		
(d)	NC35 Sound attenuator before and after fan	No	2		
(e)	Ø100 spiral duct	m	36		
(f)	Ø200 spiral duct	m	16		
(g)	Ø350 spiral duct	m	40		
2.1.2	<u>Fresh Air System: Isolation Ward, Store, Duty Room, Emergency Recovery, Burns Ward</u>				
(a)	550 x 500 Weather louver	No	1		
(b)	Fresh air filter box complete with primary filter	No	1		
(c)	Inline duct fan for 480 l/s complete with VSD	No	1		
(d)	NC35 Sound attenuator before and after fan	No	2		
(e)	Ø100 spiral duct	m	30		
(f)	Ø220 spiral duct	m	28		
(g)	Ø350 spiral duct	m	30		
2.1.3	<u>Fresh Air System: Play Room, Medical Ward, Mal Nutrition, Surgical Wards, and Isolation Ward</u>				
(a)	550 x 500 Weather louver	No	1		
(b)	Fresh air filter box complete with primary filter	No	1		
(c)	Inline duct fan for 480 l/s complete with VSD	No	1		
(d)	NC35 Sound attenuator before and after fan	No	2		
(e)	Ø100 spiral duct	m	20		
(f)	Ø150 spiral duct	m	16		
(g)	Ø250 spiral duct	m	10		
(h)	Ø300 spiral duct	m	45		
2.1.4	<u>Fresh Air System: Ward Office, Linen, Duty Room, Dressing Room, Medical Store, Kitchen</u>				
(a)	800 x 800 Weather louver	No	1		
(b)	Fresh air filter box complete with primary filter	No	1		
(c)	Inline duct fan for 1 200 l/s complete with VSD	No	1		
(d)	NC35 Sound attenuator before and after fan	No	2		
(e)	Ø100 spiral duct	m	18		
(f)	Ø150 spiral duct	m	16		
(g)	Ø350 spiral duct	m	18		
(h)	Ø400 spiral duct	m	24		
(e)	Ø500 spiral duct	m	15		
Bill No.4: Ventilation Installation					Carried Forward



Item	Description	Unit	Qty	Rate	Amount
Bill No.4: Ventilation Installation <b>Brought Forward</b>					
2.1.5	<u>Fresh Air System: Nurse Station, Sick Room, Dinning Room</u>				
(a)	800 x 800 Weather louver	No	1		
(b)	Fresh air filter box complete with primary filter	No	1		
(c)	Inline duct fan for 488 l/s complete with VSD	No	1		
(d)	NC35 Sound attenuator before and after fan	No	2		
(e)	Ø100 spiral duct	m	18		
(f)	Ø350 spiral duct	m	18		
(g)	Ø400 spiral duct	m	24		
2.1.5	<u>Fresh Air System: Dressing room, Duty Room, Social Worker</u>				
(a)	400 x 400 Weather louver	No	1		
(b)	Fresh air filter box complete with primary filter	No	1		
(c)	Inline duct fan for 350 l/s complete with VSD	No	1		
(d)	NC35 Sound attenuator before and after fan	No	2		
(e)	Ø100 spiral duct	m	18		
(f)	Ø350 spiral duct	m	18		
(g)	Ø400 spiral duct	m	24		
2.2	<u><b>Design, Supply, Install, and Commission a stale air extraction system complete with Centrifugal fans, sound attenuators for supply &amp; return ducts for NC35 indoors, ducting, flexible couplings, primary filters, as specified and as shown on the drawings.</b></u>				
2.2.1	<u>Stale Air Extraction System: Visitors, Medical Ward, Mal Nutrition, Gastro, and Neo Natal Wards</u> Supply Extraction air system for 480 l/s complete with two Sound Attenuators before and after the inline duct fan, flexible coupling, support brackets, disk valves, and fasteners for full operation				
(a)	Extract air fan for 480 l/s	No	1		
(b)	Disk valves for 30 l/s	No	3		
(c)	Disk valves for 60 l/s	No	4		
(d)	Disk valves for 100 l/s	No	2		
(e)	Sound attenuators for NC35	No	2		
(f)	Ø200 spiral duct	m	20		
Bill No.4: Ventilation Installation <b>Carried Forward</b>					

Item	Description	Unit	Qty	Rate	Amount
Bill No.4: Ventilation Installation <b>Brought Forward</b>					
(g)	Ø300 spiral duct	m	50		
(f)	500 x 500 Weather louver	No	1		
2.2.2	<u>Stale Air Extraction System: Isolation Ward, Store, Duty Room, Staff Toilet, Sluice Room, Duty Room, Emergency Recovery, Milk Prep, Kitchen, Burns Ward</u>  Supply Extraction air system for 480 l/s complete with two Sound Attenuators before and after the inline duct fan, flexible coupling, support brackets, disk valves, and fasteners for full operation				
(a)	Extract air fan for 480 l/s	No	1		
(b)	Disk valves for 30 l/s	No	3		
(c)	Disk valves for 60 l/s	No	3		
(d)	Disk valves for 100 l/s	No	4		
(e)	Sound attenuators for NC35	No	2		
(f)	Ø200 spiral duct	m	20		
(g)	Ø300 spiral duct	m	50		
(f)	500 x 500 Weather louver	No	1		
2.2.3	<u>Stale Air Extraction System: Ward Office, Bath, Linen, Toilets, Sluice Room, Duty Room</u>  Supply Extraction air system for 320 l/s complete with two Sound Attenuators before and after the inline duct fan, flexible coupling, support brackets, disk valves, and fasteners for full operation				
(a)	Extract air fan for 320 l/s	No	1		
(b)	Disk valves for 30 l/s	No	2		
(c)	Disk valves for 40 l/s	No	2		
(d)	Disk valves for 60 l/s	No	2		
(e)	Disk valves for 100 l/s	No	1		
(f)	Disk valves for 200 l/s	No	1		
(g)	Sound attenuators for NC35	No	2		
(h)	Ø100 spiral duct	m	16		
(i)	Ø200 spiral duct	m	30		
(j)	400 x 400 Weather louver	No	1		
2.2.4	<u>Stale Air Extraction System: Dressing room, Medicine store, Kitchen</u>  Supply Extraction air system for 320 l/s complete with two Sound Attenuators before and after the inline duct fan, flexible coupling, support brackets, disk valves, and fasteners for full operation				
(a)	Extract air fan for 320 l/s	No	1		
(b)	Disk valves for 30 l/s	No	2		
(c)	Disk valves for 60 l/s	No	2		
(d)	Disk valves for 200 l/s	No	6		
(e)	Sound attenuators for NC35	m	1		
(f)	Ø250 spiral duct	m	1		
(g)	400 x 400 Weather louver	No	1		
Bill No.4: Ventilation Installation <b>Carried Forward</b>					

Item	Description	Unit	Qty	Rate	Amount
Bill No.4: Ventilation Installation <b>Brought Forward</b>					
2.2.5	<u>Stale Air Extraction System: Staff Kitchen, Play Room, Medical Ward, Mal Nutrition, Surgical Wards, Isolation Ward</u>  Supply Extraction air system for 480 l/s complete with two Sound Attenuators before and after the inline duct fan, flexible coupling, support brackets, disk valves, and fasteners for full operation				
(a)	Extract air fan for 480 l/s	No	1		
(b)	Disk valves for 30 l/s	No	3		
(c)	Disk valves for 50 l/s	No	1		
(d)	Disk valves for 60 l/s	No	4		
(e)	Disk valves for 100 l/s	No	1		
(f)	Sound attenuators for NC35	No	2		
(f)	Ø 150 spiral duct	m	30		
(f)	Ø 300 spiral duct	m	36		
(f)	500 x 500 Weather louver	No	1		
2.3	<u>Drawings and Manuals: Allow for the preparation of general arrangement drawings, shop drawings / fabrication drawings, as built drawings, together with the O&amp;M manuals, all to be submitted to the Mechanical Engineer for approval</u>				
(a)	Prepare and submit soft copy "shop drawings"	sum	1		
(b)	Prepare and submit three (3) sets hard copy "as-builts"	sum	1		
(c)	Operating & Maintenance Manuals, three (3) sets	sum	1		
2.4	<u>Testing and Commissioning: Allow for the testing and commissioning of the entire system including generation of commissioning data sheets. Contractor to provide all necessary test equipment &amp; tools such as pressure gauges, thermometers, sound meters, ect. to ensure that systems are fully functional upon completion of the project and for witnessing by the Engineer.</u>				
(a)	Successful commissioning, testing, and witness testing performance data sheets (signed off by project stakeholders)	sum	1		
2.5	<u>Allow for a 12 month Maintenance period of the entire system, as per the specification of the Mechanical Engineer</u>				
(a)	Allow for minor maintenance and Cleaning of filters every month	Month	12		
<b>Bill No. 02: Ventilation Installation: Total Carried to Section Summary Page</b>					

Item	Description	Unit	Qty	Rate	Amount
	<b><u>BILL 03: MEDICAL GAS SYSTEM</u></b>				
3.1	<b><u>Vacuum system</u></b> Supply, deliver, install, commission, test, and hand over with all certificates & in a satisfactory working order the below vacuum equipment:				
3.1.1	<u>Vacuum Pump</u> Oil Rotary Vane Vacuum Pump including bacterial filters, receiver and switch gear				
(a)	Supply and deliver	No	3		
(b)	Install and commission	No	3		
3.1.2	<u>Vacuum Trap</u>				
(a)	Supply and deliver	No	4		
(b)	Install and commission	No	4		
3.1.3	<u>Vacuum piping</u> Supply and install medical gas grade copper piping				
(a)	Ø22 mm pipe	m	180		
(b)	Ø42 mm pipe	m	100		
(b)	Ø76 mm pipe	m	4		
3.1.4	<u>Fittings</u>				
(a)	Brackets, holderbats, etc	sum	1		
(b)	Vacuum Points inside bedhead units	No	62		
3.2	<b><u>Oxygen system</u></b> Supply, deliver, install, commission, test, and hand over in a satisfactory working order the below oxygen equipment:				
3.2.1	<u>Manifold</u> 3 x 10 Automatic change-over manifold complete with all necessary valves, regulators, pigtails, etc.				
(a)	Supply and deliver	sum	1		
(b)	Install and commission	sum	1		
3.2.2	<u>Cylinder holder bracket</u> Supply, deliver, install, and hand over a complete holder bracket set with securing chain and hooks for 10 oxygen cylinders				
(a)	Supply and deliver	No	3		
(b)	Install and commission	No	3		
Bill No.5: Medical Gas Installations <b>Carried Forward</b>					

Item	Description	Unit	Qty	Rate	Amount
Bill No.5: Medical Gas Installations <b>Brought Forward</b>					
3.2.3	<u>Oxygen piping</u> Supply and install medical gas grade copper piping				
(a)	Ø12 mm pipe	No	190		
(b)	Ø22 mm pipe	No	100		
(c)	Ø42 mm pipe	No	9		
3.2.4	<u>Fittings</u>				
(a)	Supply and install: Brackets, holderbats, etc	sum	1		
(b)	Supply & install: Oxygen Points inside bedhead units	No	62		
3.3	<u>LP Air System</u> Supply, deliver, install, commission, test, and hand over with all certificates & in a satisfactory working order the below compressor system for LP Air.				
3.3.1	<u>Compressors</u> 840 l/min LPA @ 400 kPa minimum; complete unit with with all necessary controls, valves, regulators, filters, driers, etc for full medical use as specified.				
(a)	Supply and deliver	No	3		
(b)	Install and commission	No	3		
3.3.2	<u>Compressor Panel and cabelling</u>				
(a)	Supply and deliver	Sum	1		
(b)	Install and commission	Sum	1		
3.3.3	<u>Vacuum piping</u> Supply and install medical gas grade copper piping				
(a)	Ø22 mm pipe	m	180		
(b)	Ø42 mm pipe	m	100		
(b)	Ø76 mm pipe	m	4		
3.3.4	<u>Fittings</u>				
(a)	Brackets, holderbats, etc	sum	1		
(b)	Vacuum Points inside bedhead units	No	62		
3.3.5	<u>Receiver</u>				
(a)	Supply 500L receiver	No	2		
(b)	Install receiver complete with statutory inspection certificates	No	2		
3.3.5	DewPoint Sensor and Measuring Chamber	no	1		
3.3.7	Display without Logger	no	1		
3.3.8	Dessicant Dryers and Change over valve	no	3		
Bill No.5: Medical Gas Installations <b>Carried Forward</b>					

Item	Description	Unit	Qty	Rate	Amount
Bill No.5: Medical Gas Installations					<b>Brought Forward</b>
3.4	<b>Pendant for Isolation Ward 01 &amp; 2</b>				
(a)	Supply and deliver	No	3		
(b)	Install and commission	No	3		
3.5	<b>Master Alarm Panel</b>				
(a)	Supply and deliver	No	1		
(b)	Install and commission	No	1		
3.6	<b>Slave Alarm Panel</b>				
(a)	Supply and deliver	No	2		
(b)	Install and commission	No	2		
3.7	<b>Electrical DB for plantroom equipment</b>				
(a)	Supply and deliver	No	3		
(b)	Install and commission	No	3		
(c)	Electrical & control wiring	sum	3		
3.8	<b>Supply and Install Valve Boxes; Complete with valves and fully operational as shown on the drawings.</b>				
(a)	Ground Floor: Paediatric Ward	No	1		
(b)	First Floor: Paediatric Ward	No	1		
3.9	<b>Painting &amp; Colour Coding</b>	sum	1		
3.10	<b>Testing &amp; Commissioning</b>	sum	1		
3.11	<b>Operating &amp; Maintenance Manuals, Drawings</b>	sum	1		
Bill No. 03: Medical Gas Installation: Total Carried to Section Summary Page					

Item	Description	Unit	Qty	Rate	Amount
	<b>BILL 04: FIRE PUMPS INSTALLATION</b>				
4.1	<u>Supply and install a Grundfos or other approved modular fire pump system complete with a Star/Delta starting 37kW electrical driven pump, desiel driven pump - each capable of achieving a duty point of 40l/s @ 5Bar in duty-standby, electrical driven jockey pump capable of maintaining system pressure between 5.5 and 5 Bar complete with base frames, suction and discharge manifolds, expansion joints, lockable isolation valves, inspectable non return valves, test bypass with readable flow meter, pressure switches, suction, discharge, pressure and vacuum gauges with 2x 24 liter pressure vessels fitted, control panels for each pump, micro alarm system with annunciation and sms alarm module, factory testing to EN12845, UNI11292 and 10779 standards. Only EN12845 certified installers shall be allowed.</u>				
4.1.1	Supply	sum	1		
4.1.2	Installation	sum	1		
4.1.3	Commissioning & issuing of test reports	sum	1		
4.1.4	Operating & maintainence manuals	`sum	1		
4.1.5	As built draings	sum	1		
4.2	<b><u>Accessories</u></b>				
4.2.1	Suction kit	sum	1		
4.2.2	Test kit	sum	1		
4.2.3	Engine spares	sum	1		
4.2.4	Silencer	sum	1		
4.2.5	Manual pump	sum	1		
4.2.6	Remote alarm signaling device	sum	1		
4.3	<b>Monthly inspection &amp; maintenance</b>	month	12		
<b>Bill No. 04: Fire Pump Installation: Total Carried to Section Summary Page</b>					

Item	Description	Unit	Qty	Rate	Amount
	<b><u>BILL 05:</u></b>				
	<b><u>KITCHEN INSTALLATIONS</u></b>				
5.1	Allow for a detailed maintenance inspection and report on all kitchen equipment prior to any intervention	Sum	1		
5.2	Allow for maintenance intervention and spares as determined by the inspection report	PC Sum	1	190,000.00	190,000.00
5.3	Allow for handling fee on maintenance work carried out on kitchen installations	Sum	1		
<b>Bill No. 05: Kitchen Installations: Total Carried to Section Summary Page</b>					



Item	Description	Unit	Qty	Rate	Amount
	<b><u>BILL 06:</u></b>				
	<b><u>HOT WATER INSTALLATIONS</u></b>				
6.1	Allow for a detailed maintenance inspection and report on hot plant prior to any intervention	Sum	1		
6.2	Allow for maintenance intervention and spares as determined by the inspection report	PC Sum	1	100,000.00	100,000.00
6.3	Allow for handling fee on maintenance work carried out on hot water installations	Sum	1		
<b>Bill No. 06: Hot Water Installations: Total Carried to Section Summary Page</b>					

**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI  
MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

BILL 01	:	AIR-CONDITIONING INSTALLATIONS	_____
BILL 02	:	VENTILATION INSTALLATIONS	R _____
BILL 03	:	MEDICAL GAS INSTALLATIONS	R _____
BILL 04	:	FIRE PUMP INSTALLATIONS	R _____
BILL 05	:	KITCHEN INSTALLATIONS	R _____
BILL 06	:	HOT WATER INSTALLATIONS	R _____

CARRIED FORWARD TO FINAL SUMMARY	R	=====
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**REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEKGOMOTSI  
MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

**FINAL SUMMARY**

SEC	Description	Carried From Page No	Amount
1	Preliminaries and General	44	R
2	Builders Work	164	R
3	Fencing	175	R
4	Electrical Installations	227	R
5	ICT Installations	240	R
6	Mechanical Installation	263	R
	<b>Sub-Total</b>		R
	<b>Add: Contingency Amount</b> Allow for R 4 000 000.00 (Four Million Rands) contingency amount to be used as directed by the Client or Project Manager or be deducted in whole or part of if not required		R 4,000,000.00
	<b>Sub-Total</b>		R
	<b>Add: Contract Price Adjustment Provision (CPAP)</b> Allow an amount of R 3 000 000.00 (Three Million Rands Only) for Contract Price Adjustment Provisions (CPAP or Escalation)		R 3,000,000.00
	<b>Sub-Total</b>		R
	<b>Add: Value Added Tax (15%)</b>		R
	<b>TOTAL CARRIED FORWARD TO FORM OF OFFER</b>		R



**health**

Department of  
Health  
North West Province  
REPUBLIC OF SOUTH AFRICA

# **REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

## **THE CONTRACT**

### **AGREEMENT AND CONTRACT DATA**

## C1.1 Form of Offer and Acceptance

### Offer

The North West Department of Health has solicited offers to enter into a contract for the procurement of a contractor for:

### REFURBISHMENT OF TAUNG REGIONAL HOSPITAL

The tenderer, identified in the signature block below, has examined the documents listed in the Tender Data and addenda thereto as listed in the Tender Schedules, and by submitting this Offer has accepted the Conditions of Tender.

By attaching the signature of a duly authorised representative to this part of this Form of Offer and Acceptance, the tenderer offers to perform all of the obligations and liabilities of the Contractor (or the Consultant or the Supplier as the case may be) under the Contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the Conditions of Contract identified in the Contract Data.

The total of the amount tendered is
_____
_____
Rand, (in words); R_____ (in figures). (Not applicable for cost reimbursable or rate only contracts)

This Offer, of which the tenderer has signed two originals, may be accepted by the Procuring Department by signing the form of Acceptance overleaf and returning one fully executed original of this document including the Schedule of Deviations (if any) 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, (or the Consultant, Professional Service Provider, Service Provider or the Supplier as the case may be) in the Conditions of Contract identified in the Contract Data.

#### For the tenderer:

Signature(s)

Name(s)

Capacity

\_\_\_\_\_  
(Insert name and address of organisation)

Name &  
signature of  
witness

Date

### Acceptance

By attaching the signature of a duly authorised representative to this part of this Form of Offer and Acceptance, the Procuring Department accepts the tenderer's Offer. In consideration thereof, the Procuring Department shall pay the Contractor, (or the Consultant or the Supplier as the case may be) 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 Procuring Department 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 Agreements and Contract Data, (which includes this Form of Offer and Acceptance)
- 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 the above listed Parts.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Tender Schedules as well as any changes to the terms of the Offer agreed by the tenderer and the Procuring Department during this process of Offer and Acceptance, are contained in the Schedule of Deviations attached to and forming part of this Form of Offer and Acceptance. No amendments to or deviations from said documents are valid unless contained in this Schedule, which must be signed by the duly authorised representative(s) for both parties.

The tenderer shall within one week of receiving a fully executed original of this Agreement, including the Schedule of Deviations (if any), contact the Procuring Department's agent (whose details are given in the Contract Data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data at, or just after, the date this Agreement comes into effect. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

Notwithstanding anything contained herein, this Agreement comes into effect on the date when the tenderer receives one fully executed original of this document, including the Schedule of Deviations (if any). Unless the tenderer (now Contractor, Consultant or Supplier) within five days of the date of such receipt notifies the Procuring Department in writing of any reason why he cannot accept the contents of this Form of Offer and Acceptance, this Agreement shall constitute a binding contract between the Parties.

#### For the Procuring Department

Signature(s)

Name(s)

Capacity

*(Insert name and address of organisation)*

Name &  
signature of  
witness

Date

## Schedule of Deviations

Note:

1. The extent of deviations from the tender documents issued by the Procuring Department prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender.
2. In the event of conflict between the contents of this Schedule of Deviations and any other list or record of tender stage amendments or addenda, this Schedule shall take precedence.

**1 Subject** \_\_\_\_\_

Details \_\_\_\_\_

**2 Subject** \_\_\_\_\_

Details \_\_\_\_\_

**3 Subject** \_\_\_\_\_

Details \_\_\_\_\_

**4 Subject** \_\_\_\_\_

Details \_\_\_\_\_

**5 Subject** \_\_\_\_\_

Details \_\_\_\_\_

**6 Subject** \_\_\_\_\_

Details \_\_\_\_\_

By affixing the signatures of the duly authorised representatives below, the Procuring Department and the tenderer both 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 any addenda thereto listed in the Tender Schedules, as well as any changes to the terms of the Offer agreed by the tenderer and the Procuring Department during this process of Offer and Acceptance.

It is expressly agreed that no information, documentation or communication not listed in the Schedule of Deviations shall have any meaning or effect in the contract between the parties arising from this Agreement.

**For the tenderer:**

Signature(s)		
Name(s)		
Capacity		
<i>(Insert name and address of organisation)</i>		
Name & signature of witness		Date

**For the Procuring Department**

Signature(s)		
Name(s)		
Capacity		
<i>(Insert name and address of organisation)</i>		
Name & signature of witness		Date



# SCOPE OF WORKS

<b>Client</b>	<b>North West Department of Health</b>
<b>Project Title</b>	<b>Refurbishment of Taung Regional Hospital</b>
<b>Tender No</b>	<b>NWDoH/PS/30/19</b>

## **1. Extent of the Works**

**The project scope is the Refurbishment of Taung Regional Hospital and the works comprises of the following:**

### **1.1. Building Works**

- 1.1.1. Alterations and Demolitions
- 1.1.2. Earthworks
- 1.1.3. Concrete, Formwork and Reinforcement
- 1.1.4. Masonry
- 1.1.5. Waterproofing
- 1.1.6. Roof Coverings
- 1.1.7. Carpentry and Joinery
- 1.1.8. Ceilings, Partitions and Access Flooring
- 1.1.9. Floor Coverings
- 1.1.10. Ironmongery
- 1.1.11. Structural Steel Works
- 1.1.12. Metalwork
- 1.1.13. Plastering
- 1.1.14. Tiling
- 1.1.15. Plumbing and Drainage
- 1.1.16. Glazing
- 1.1.17. Paintworks

### **1.2. Electrical Works**

- 1.2.1. Low and Medium Voltage Cables
- 1.2.2. Earthing
- 1.2.3. Luminaries
- 1.2.4. Switches
- 1.2.5. Distribution Boards
- 1.2.6. Lighting Protection
- 1.2.7. ICT and Access Control
- 1.2.8. Fire Detection
- 1.2.9. And All Related Electrical Works

### **1.3. Mechanical Works**

- 1.3.1. Fire Protection
- 1.3.2. Heating, Ventilation and Air-conditioning.
- 1.3.3. Medical Gas
- 1.3.4. And All Related Mechanical Works

### **1.4. External Works**

- 1.4.1. Paving
- 1.4.2. Walkways

<b>Client</b>	<b>North West Department of Health</b>
<b>Project Title</b>	<b>Refurbishment of Taung Regional Hospital in the Northwest Province</b>
<b>Tender No</b>	<b>NWDoH/PS/30/19</b>

## SITE INFORMATION

The site is located at the existing Potchefstroom in within the Dr. Segomotsi Ruth Mompoti District of the North West Province in the Republic of South Africa.

The site address is as follows:

Stand 2936 Magistrate Road  
Taung  
North West Province  
South Africa

### Coordinates:

-27.5378921, 24.7913786





**health**

Department of  
Health  
North West Province  
REPUBLIC OF SOUTH AFRICA

# **REFURBISHMENT OF TAUNG DISTRICT HOSPITAL IN DR. RUTH SEGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE**

## **TENDER DRAWINGS**