



KWAZULU-NATAL PROVINCE

HEALTH
REPUBLIC OF SOUTH AFRICA

PROJECT NO. : ZNB5167/2022-H

DESCRIPTION OF SERVICE : APPOINTMENT OF A MULTIDISCIPLINARY PROFESSIONAL TEAM FOR THE UPGRADING OF WATER AND SEWER RETICULATION SYSTEMS AT TOWNHILL HOSPITAL

DISCIPLINE : MULTIDISCIPLINARY TEAM LED BY A PROFESSIONALLY REGISTERED CIVIL ENGINEER/TECHNOLOGIST

DEPARTMENT OF HEALTH
CENTRAL SUPPLY CHAIN MANAGEMENT DIRECTORATE
Private Bag X9051
Pietermaritzburg 3200

PLEASE NOTE THAT THIS BID IS SUBJECT TO TREASURY REGULATIONS 16A ISSUED IN TERMS OF THE PUBLIC FINANCE MANAGEMENT ACT, 1999, THE KWAZULU-NATAL SUPPLY CHAIN MANAGEMENT POLICY FRAMEWORK AND THE GENERAL CONDITIONS OF CONTRACT PRESCRIBED BY PROVINCIAL TREASURY.

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**SECTION A
INVITATION TO BID**

DESCRIPTION:

THE APPOINTMENT OF A MULTIDISCIPLINARY PROFESSIONAL TEAM FOR THE UPGRADING OF WATER AND SEWER RETICULATION SYSTEMS AT TOWNHILL HOSPITAL

Project Number : ZNB5167/2022-H
Closing Date : 30 August 2022
Closing Time : 11:00

Compulsory Briefing: Yes
Date : 12 August 2022
Time : 10:00
Venue : Townhill Office Park, Block 1 Boardroom

Bid Validity Period: 84 Days

THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM

BID DOCUMENTS MAY BE POSTED TO:

HEAD: DEPARTMENT OF HEALTH
CENTRAL SUPPLY CHAIN MANAGEMENT DIRECTORATE
PRIVATE BAG X9051
PIETERMARITZBURG, 3200

OR

DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS):

SUPPLY CHAIN MANAGEMENT
OLD BOYS SCHOOL
310 JABU NDLOVU STREET
PIETERMARITZBURG
3201

Bidders should ensure that bids are delivered timeously to the correct address. If the bid is late, it will not be accepted for consideration.

The bid box is generally open 24 hours a day, 7 days a week.

ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS – (NOT TO BE RE-TYPED)

THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2011, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT

THE FOLLOWING PARTICULARS MUST BE FURNISHED (FAILURE TO DO SO WILL RESULT IN YOUR BID BEING DISQUALIFIED)

NAME OF BIDDER: _____

POSTAL ADDRESS: _____

Code: _____

STREET ADDRESS: _____

Code: _____

TELEPHONE: _____

Code: _____

Number: _____

CELL PHONE : _____

Code: _____

Number: _____

FACSIMILE NUMBER: _____

Code: _____

Number: _____

E-MAIL ADDRESS: _____

VAT REGISTRATION NUMBER: _____

SIGNATURE OF BIDDER: _____

DATE: _____

CAPACITY UNDER WHICH THIS BID IS SIGNED: _____

ANY ENQUIRIES REGARDING THE BIDDING PROCEDURE MAY BE DIRECTED TO:

Department : KZN - DEPARTMENT OF HEALTH
Contact Person : Junitha Sookraj
Tel : (033) 815 8369
E-mail address : junitha.sookraj@kznhealth.gov.za

ANY ENQUIRIES REGARDING TECHNICAL INFORMATION MAY BE DIRECTED TO:

Department : KZN - DEPARTMENT OF HEALTH
Contact Person : Musa Ngcobo
Tel : (033) 940 2539
E-mail address : musa.ngcobo@kznhealth.gov.za

SECTION B

SPECIAL INSTRUCTIONS AND NOTICES TO BIDDERS REGARDING THE COMPLETION OF FORMS

PLEASE NOTE THAT THIS BID IS SUBJECT TO TREASURY REGULATIONS 16A ISSUED IN TERMS OF THE PUBLIC FINANCE MANAGEMENT ACT, 1999, THE KWAZULU-NATAL SUPPLY CHAIN MANAGEMENT POLICY FRAMEWORK AND THE GENERAL CONDITIONS OF CONTRACT.

1. Unless inconsistent with or expressly indicated otherwise by the context, the singular shall include the plural and vice versa and with words importing the masculine gender shall include the feminine and the neuter.
2. Under no circumstances, whatsoever may the bid forms be retyped or redrafted. Photocopies of the original bid documentation may be used, but an original signature must appear on such photocopies.
3. The bidder is advised to check the number of pages and to satisfy himself that none are missing or duplicated.
4. Bid submitted must be complete in all respects.
5. Bid shall be lodged at the address indicated not later than the closing time specified for their receipt, and in accordance with the directives in the bid documents.
6. Each bid shall be addressed in accordance with the directives in the bid documents and shall be lodged in a separate sealed envelope, with the name and address of the bidder, the bid number and closing date indicated on the envelope. The envelope shall not contain documents relating to any bid other than that shown on the envelope. If this provision is not complied with, such bids will be rejected as being invalid.
7. A specific box is provided for the receipt of bids, and no bid found in any other box or elsewhere subsequent to the closing date and time of bid will be considered.
8. No bid sent through the post will be considered if it is received after the closing date and time stipulated in the bid documentation, and proof of posting will not be accepted as proof of delivery.
9. No bid submitted by telefax, telegraphic or other electronic means will be considered.
10. Bid documents must not be included in packages containing samples. Such bids will be rejected as being invalid.
11. Any alteration made by the bidder must be initialled.
12. Use of correcting fluid is prohibited and will render the bid invalid.
13. If it is desired to make more than one offer against any individual item, such offers should be given on a photocopy of the page in question. Clear indication thereof must be stated on the schedules attached.

SECTION C

REGISTRATION ON THE CENTRAL SUPPLIERS DATABASE

1. In terms of the Public Finance Management Act (PFMA), 1999 (Act No 1 of 1999) Section 38 (1) (a) (iii) and 51 (1) (iii) and Section 76 (4) of PFMA National Treasury developed a single platform, The Central Supplier Database (CSD) for the registration of prospective suppliers including the verification functionality of key supplier information.
2. Prospective suppliers will be able to self-register on the CSD website: www.csd.gov.za
3. Once the supplier information has been verified with external data sources by National Treasury a unique supplier number and security code will be allocated and communicated to the supplier. Suppliers will be required to keep their data updated regularly and should confirm at least once a year that their data is still current and updated.
4. Suppliers to provide their CSD supplier number and unique security code to organs of state to view their verified CSD information.

CSD NUMBER

SECTION D

DECLARATION THAT INFORMATION ON CENTRAL SUPPLIER DATABASE IS CORRECT AND UP TO DATE

(To be completed by bidder)

This is to certify that I

.....
(name of bidder / authorised representative)

Who represents

.....
(state name of bidder)

Am aware of the contents of the Central Supplier's Database with respect to the bidder's details and registration information, and that the said information is correct and up to date as on the date of submitting this bid.

In addition, I am aware that incorrect or outdated information may be a cause for disqualification of this bid from the bidding process, and/or possible cancellation of the contract that may be awarded on the basis of this bid.

.....
Name of bidder

.....
Signature of bidder or authorised representative

.....
Date

SECTION E
DECLARATION OF INTEREST – SBD 4

1. Any legal person, including persons employed by the state*, or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid (includes a price quotation, advertised competitive bid, limited bid or proposal). In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the bidder or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority and/or take an oath declaring his/her interest, where-

- the bidder is employed by the state; and/or
- the legal person on whose behalf the bidding document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the bid(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the bid.

2. **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

2.1. Full Name of bidder or his or her representative:.....

2.2. Identity Number:.....

2.3. Position occupied in the Company (director, trustee, shareholder¹, member):.....

2.4. Company Registration Number.....

2.5. Tax Reference Number:.....

2.6. VAT Registration Number:.....

* "State" means –

- (a) any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management

¹ "Shareholder" means a person who owns shares in the company and is actively involved in the management of the enterprise or business and exercises control over the enterprise.

- Act, 1999 (Act No. 1 of 1999);
- (b) any municipality or municipal entity;
- (c) provincial legislature;
- (d) national Assembly or the national Council of provinces; or
- (e) Parliament.

2.7. Are you or any person connected with the bidder presently employed by the state?

YES / NO

2.7.1. If so, furnish the following particulars:

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

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

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

Any other particulars:

.....

2.8. Did you or your spouse, or any of the company's directors / shareholders / members or their spouses conduct business with the state in the previous twelve months?

YES / NO

2.8.1. If so, furnish particulars:

.....

2.9. Do you, or any person connected with the bidder, have any relationship (family, friend, other) with a person employed by the state and who may be involved with the evaluation and or adjudication of this bid?

YES / NO

2.9.1. If so, furnish particulars.

2.10. Are you, or any person connected with the bidder, aware of any relationship (family, friend, other) between any other bidder and any person employed by the state who may be involved with the evaluation and or adjudication of this bid?

YES / NO

2.10.1. If so, furnish particulars.

2.11. Do you or any of the directors / shareholders / members of the company have any interest in any other related companies whether or not they are bidding for this contract?

YES / NO

2.11.1. If so, furnish particulars.

DECLARATION

I, the undersigned

(name)

CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 2 AND 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

Signature

Date

Position

Name of bidder

SECTION F FORM OF OFFER AND ACCEPTANCE

1. Offer

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

An Entity to provide a multidisciplinary team of experienced and skilled professional consulting services with a Civil Engineer/Technologist as Lead Consultant

For the project: UPGRADING OF WATER AND SEWER RETICULATION SYSTEMS AT TOWNHILL HOSPITAL

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

By the representative of the bidder, deemed to be duly authorized, signing this part of this form of offer and acceptance, the bidder offers to perform all of the obligations and liabilities of the Service Provider under the Contract including compliance with all its terms and conditions according to their true intent and meaning for remuneration to be determined in accordance with the conditions of Contract identified in the Contract Data.

2. Price

The offered price for the multidisciplinary team with a Civil Engineer/Technologist as Lead Consultant, inclusive of value added tax, is

R (in figures)

and,

Rand (in words)

This offer may be accepted by the Employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the bidder before the end of the period of validity stated in the Tender Data, whereupon the bidder becomes the party named as the Service Provider in the conditions of Contract identified in the Contract Data.

3. This offer is made by the following Legal Entity: (please cross out the block that is not applicable)

Company or Close Corporation	Natural person or Partnership
Registration number:	Identity number:
Income Tax Reference number:	Income Tax Reference number:

or

and who is (if applicable):

Trading under the name and style of:

and who is:

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

In his/her capacity as:

Note: A resolution / power of attorney, signed by all the directors / members / partners of the legal entity must accompany this offer, authorising the representative to make this offer.

4. Signed for the bidder:

Name of representative

Signature

Date

5. Witnessed by:

Name of representative

Signature

Date

6. Domicilium Citandi Et Executandi

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

Street address::

Code:

Postal address

Code:

Telephone:

Code:

Number:

Cell phone :

Code:

Number:

Facsimile number:

Code:

Number:

E-mail address:

Banker:

Branch:

7. Acceptance

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

8. The terms of the Contract

The terms of the Contract are contained in:

Part C1 Agreements and Contract Data, (which includes this agreement) Part C2 Pricing Data

and;

Documents or parts thereof, which may be incorporated by reference into Parts C1 to C2 above.

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

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

Notwithstanding anything contained herein, this agreement comes into effect, if sent by registered post, 4 days from the date on which it was posted, if delivered by hand, on the day of delivery, provided that it has been delivered during ordinary business hours, or if sent by fax, the first business day following the day on which it was faxed. Unless the bidder (now Service Provider) within seven working days of the date of such submission notifies the Employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the Parties.

9. Signed for the Employer:

Name of representative

Signature

Date

Street address: _____

Code: _____

Telephone: Code: _____ Number: _____

Facsimile number: Code: _____ Number: _____

10. Witnessed by:

Name of representative

Signature

Date

11. Schedule of Deviations

1	Subject	.....
	Details	....................
2	Subject	.....
	Details	....................
3	Subject	.....
	Details	....................
4	Subject	.....
	Details	....................
5	Subject	.....
	Details	....................

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

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

SECTION G

SPECIFICATIONS, SCOPE, EVALUATION

AN ENTITY TO PROVIDE A MULTIDISCIPLINARY TEAM OF EXPERIENCED AND SKILLED PROFESSIONAL CONSULTING SERVICES WITH A CIVIL ENGINEER/TECHNOLOGIST AS A LEAD CONSULTANT

1. Project Description

Upgrading Of Water and Sewer Reticulation Systems at Townhill Hospital.

2. Project Background

Townhill Hospital is a Specialised Psychiatric Hospital situated in the suburb of Townhill in Pietermaritzburg under the uMgungundlovu District. The hospital offers District Services to Pietermaritzburg communities and surrounding areas and has a bed capacity of 425. The hospital was built circa 1880 and over the years the infrastructure at this facility has been deteriorating due to age and in particular the potable water and sewer reticulation systems. The existing reticulation systems comprises of old asbestos cement, vitrified clay as well as steel pipes.

A brief condition assessment of the water reticulation system was undertaken in May 2021 and the following issues were noted:

- There are not enough isolation valves within the existing system and whenever repairs are to be done the main supply to the hospital needs to be shut off entirely and leaving the whole hospital with no water for long periods.
- The old and abandoned lines were not properly isolated and still have water inside them and tie in points were not located.
- No dedicated fire water lines and fire-fighting equipment is connected to the main hospital potable water supply.
- Certain valves are leaking owing to lack of routine valve maintenance and others are buried with no valve chambers constructed over them.

In order to provide quality care, healthcare facilities need to have a safe and accessible water supply; clean and safe sanitation facilities; hand hygiene facilities at points of care and at toilets; and appropriate waste disposal systems. The consistent supply of potable water and reliable sanitation systems in hospitals helps to prevent outbreak of deadly diseases which can affect patients and healthcare workers.

Good water and sanitation infrastructure is also essential to allow healthcare workers to perform appropriate infection prevention and control (IPC) practices and at the same time improving the welfare and dignity of patients.

3. Site Information

Facility Name	Town Hill Hospital		
Province	Kwa-Zulu Natal		
Land Use	District Hospital		
Land Owner	KZN Department of Health		
Number of Beds	425		
Street Address	35 Hyslop Road, Pietermaritzburg		
Postal Address	PO Box 400, Pietermaritzburg, 3200		
Telephone No.	033 3415500		
Cadastral Description	Latitude	-29.590644	Longitude 30.366134
Zoning	Government Facility		
Planning Restrictions	Msunduzi Municipality		
Existing Infrastructure	Multiple buildings mostly built in the late 1800s and early 1900s. The facility is experiencing huge challenges with respect to their aging water and sewer infrastructure.		
Existing Services	Municipal supply of water, electricity, sewerage and stormwater. There are no backup storage facilities for potable water and fire to cater for intermittent infrastructure breakdowns and interruptions in the municipal supply.		

Locality Map:

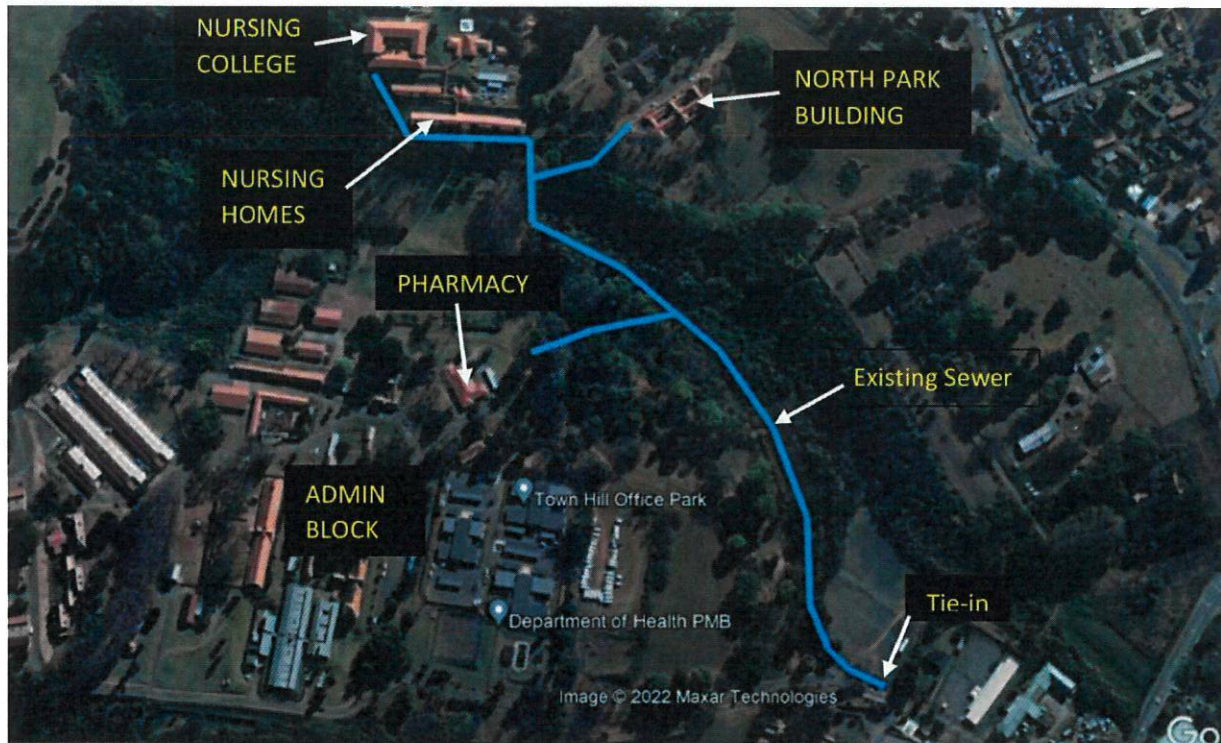


Figure 1: Aerial View of Townhill Hospital showing approximate location of sewers to be upgraded/replaced.
SOURCE: Google Earth

4. Project Outcomes

- To ensure consistent and reliable potable water supply and efficient sewer disposal systems.
- To prevent spread of deadly diseases which can affect patients and healthcare workers by providing safe and hygienic working and patient areas.
- To improve mental health care services offered by the facility.

5. Project Objectives:

In summary the project objectives are as follows:

- Ensure reliable water supply and sewer disposal infrastructure.
- Ensure uninterrupted provision of health services.
- Elimination of the health risks to patients by ensuring uninterrupted hospital services.
- To reduce the burden placed on hospital management and their maintenance department due to frequent systems breakdowns.

6. Project Success Criteria:

- A fully functional mental health facility.
- Reduced costs of undertaking unplanned maintenance.
- Improved inpatient and residential care.
- End user satisfaction – no complains on infrastructure condition and less fault logs.
- Safety - No incidents or injuries reported during and post construction.
- Quality Assurance and Compliance – project delivered as per client specifications and statutory requirements.

7. Scope of Works of the Construction Project:

The envisaged scope of work is summarized below:

- Upgrading of water and sewer reticulation systems at Townhill Hospital, including wet services and fire services.
- Installation of water storage systems to act as a backup system to municipal supply.
- Brief technical requirements of backup system:
 - The capacity of storage tanks to suit facility 72-hour emergency water requirements.
 - The tanks must be equipped with the necessary return valves at both inlet and outlet and must have approved water level control mechanism. The level control mechanism could be manual or electronic.
 - Provision of wireless tank telemetry as approved by Department of Health.
 - Emergency water to be integrated into the main water reticulation system.
 - The elevated water tanks need to generate a water pressure of 4 bars in order to operate the flush masters.
 - All work must be signed off by registered professionals.

Please refer to the **Project Brief** attached as **Appendix D** for the proposed full scope of the project.

8. Statutory Requirements:

Legislation:	All applicable Acts and Regulations pertaining to the Health Environment; OHS Act and Regulations; and All applicable Acts and Regulations for the various Professional Consultancy Services
Norms:	Infrastructure Unit Support Systems (IUSS) guidelines
Standards:	Infrastructure Unit Support Systems (IUSS) guidelines; Standard for Infrastructure Procurement and Delivery Management; Framework for Infrastructure Delivery and Procurement Management (FIDPM) All applicable standards, regulations and/or specifications of KZN Department of Health
Policies:	All applicable policies of KZN Department of Health
Other Requirements:	Relevant SANS codes All applicable standards, regulations and/or specifications of KZN Department of Health

9. Required Multidisciplinary Team Composition

- o Civil Engineer/Technologist (Lead Consultant)
- o Structural Engineer/Technologist
- o Quantity Surveyor
- o Mechanical Engineer/Technologist
- o Specialist Fire Engineer/Technologist
- o Wet Services Engineer/Technologist
- o Electrical Engineer/Technologist
- o Construction Health and Safety Agent
- o Land Surveyor (To be appointed post award)
- o Geotechnical Engineer/Technologist (To be appointed post award)
- o Environmental Specialist (To be appointed post award)

10. Scope of Services required from Team of Professional Service Providers (PSP):

The project brief to be supplied by the Department of Health is deemed to satisfy the requirements of FIDPIM Stage 1: Project Initiation and Prefeasibility. Therefore a successful professional service provider will be required to undertake FIDPM stages 2 to 7 i.e.

- Concept Design,
- Design Development,
- Design Documentation,
- Works,
- Handover And
- Close Out.

The main scope of works for the consultants will comprise of the following, but not limited to:-

- i) Undertaking topographical surveys, ground penetrating radar surveys (where applicable) and preparation of services plans.
- ii) Undertaking necessary geotechnical investigations for the design of the upgrades to water and sewer reticulation systems.
- iii) Undertaking designs for the upgrading of water, fire and sewer reticulation systems.
- iv) Contract administration and inspection.

v) Preparation of as-built drawings and close out.

The consultants will also be required to investigate, plan and design temporary water storage structures. The design and installation of the temporary water storage structures will be expedited in order to deal with the dire situation of water shortages at the hospital. The temporary water storage structures to be constructed at the following places within the hospital premises:-

- Administration Block.
- Townhill Office Park (Infrastructure Development)
- Nurses Homes and Nursing Campus
- Hillside Patient Wards.

The standard services/deliverables required (for All Construction Stages) from the consultants are as set out in the following government gazettes:

10.1. Quantity Surveyor

The South African Council for the Quantity Surveying Professions, Board Notice 170 of 2015, Government Gazette No 391134 of 28 August 2015.

10.2. Engineers/Technologists

Engineering Council of South Africa, Board Notice 138 of 2015, Government Gazette No. 39480 of 04 December 2015.

10.3. Construction Health & Safety Agent

All roles, responsibilities and deliverables as stated in the South African Council for the Project and Construction Management Professions, Board Notice 167 of 2019 Government Gazette No. 42697 of 13 September 2019 pertaining to the Construction Health and Safety Profession.

10.4. Land Surveyor/Topographical Surveys

The Lead Consultant shall confirm the detailed scope of work that will be required from Land Surveyor. The Land Surveyor shall be procured by the Lead Consultant post award of this contract and shall be paid through the Lead Consultant as a disbursement. The Lead Consultant shall be required to source 3 quotations from Professional Land Surveyors in the area with the lowest quotation being accepted. No additional fees shall be due to the Lead Consultant in respect of this service.

10.5. Geotechnical Engineer/Technologist

The Lead Consultant shall confirm the detailed scope of work that will be required from Geotechnical Engineer/Technologist. The Geotechnical Engineer/Technologist shall be procured by the Lead Consultant post award of this contract and shall be paid through the Lead Consultant as a disbursement. The Lead Consultant shall be required to source 3 quotations from Professional Geotechnical Engineers/Technologists in the area with the lowest quotation being accepted. No additional fees shall be due to the Lead Consultant in respect of this service.

10.6. Environmental Specialist

The Lead Consultant shall confirm the detailed scope of work that will be required from Environmental Specialist. The Environmental Specialist shall be procured by the Lead Consultant post award of this contract and shall be paid through the Lead Consultant as a disbursement. The Lead Consultant shall be required to source 3 quotations from Environmental Specialist in the area with the lowest quotation being accepted. No additional fees shall be due to the Lead Consultant in respect of this service.

11. Additional Items on Services required from Team of Professional Service Providers (PSP):

11.1. Extensive consultation is to take place over all construction stages which will include (but is not exclusive) consultation with:

- Townhill Hospital
- DOH District
- DOH Head Office/Infrastructure Development
- National DOH
- Local authority
- Other Local Authorities
- Statutory Bodies
- Other Departments

11.2. All consultants will be required to present end of stage deliverables for review and recommendations to the Health Infrastructure Approval Committee according to FIDPM and KZN DOH policies.

11.3. All additional required presentations to be done as may be required

11.4. All approvals to be acquired as may be required

12. Planning and Programming

The Employer is desirous that the project follow the timelines shown below. However, should the bidder feel that these timelines are not achievable then the Bidder must submit a motivation as to why it considers them not achievable and must propose alternative timelines for the Employer's consideration and approval.

PSP Deliverables according to FIDPM stages of work	Duration to produce deliverables from each stage
Stage 1: Inception	-
Stage 2: Concept & Viability Report	3 months
Stage 3: Design Development Report	4 months
Stage 4: Documentation & Procurement	6 months
Stage 5: Works	15 months
Stage 6: Handover	3 months
Stage 7: Project Close Out	2 months
TOTAL PROJECT TIME	33 months

The Lead Consultant is required to submit for approval a formal programme listing activities, level of detail, critical path activities and their dependencies, frequency of updating key dates, particulars of phased completion, programme constraints, milestone dates for completion, etc. including the activities to be carried out by the Employer or by others.

13. Software Application for documents

- Programming software shall be the latest version of MS Projects
- Drawing programme software will be the latest version/s of Autodesk AutoCAD and/or Revit
- Quantity surveying software will be the latest version of WinQS
- General software will be MS Office based software and Adobe Acrobat

All documentation that is to be sent to the Client should be in both the required software package file type, as well as in a readable PDF format.

14. Use of Reasonable Skill and Care

The Lead consultant and individual team members are to consist of one or more Registered Professionals as per the relevant Councils. They are required to perform the required service with reasonable skill, care and diligence.

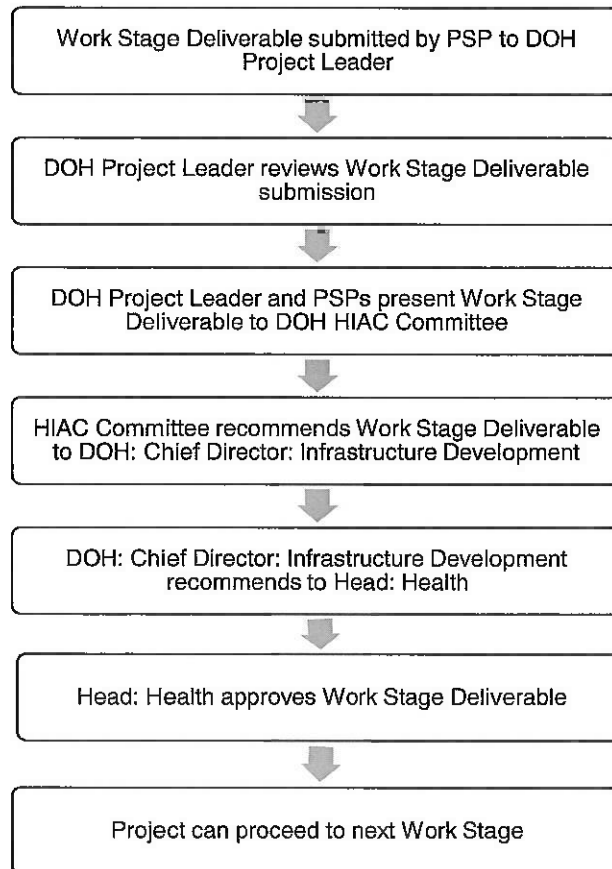
15. Co-operation with Other Service Providers and Affected Parties

The Lead Consultant is required to identify other service providers and affected parties on the project and establish how interactions are to take place.

16. Copyright

Copyright of all documents provided by the Consultant team will vest with the KwaZulu-Natal Department of Health.

17. General Approval Process per Work Stage



18. Access to Land / Buildings / Sites

Arrangements for access to land / buildings / sites and any restrictions thereto shall be the responsibility of the Employer. However, the Lead Consultant shall be aware of such arrangements and advise the Employer's Project Manager timeously to prevent any delays that may arise due to restricted access.

19. Quality Management

The Bidder shall submit their proposed quality assurance plan and control procedures to fulfil their duties as stipulated in the relevant clauses of the appropriate discipline's Guideline Scope of Services.

20. Format of Communications

These will be made available to the Lead Consultant on award of tender.

21. Key Personnel

Changes to key personnel shall only be effected once authorisation has been obtained from the Employer.

22. Management Meetings

Project Management meetings to monitor project progress will take place every 14 calendar days.

23. Forms for Contract Administration

Standard forms of contract administration purposes will be made available to the successful bidder upon award.

24. Daily Records

Daily time sheets of all personnel on the project shall be kept by the Lead Consultant and will be made available as required to the Employer. Time sheets are to clearly state work performed.

25. Fee Claims and Apportionment of Fees

Receipt and subsequent approval (by Head of Health or designated relevant authority) of all deliverables as stipulated under the relevant Construction Work Stage (Work Stages 1, 2, 3, 4 and 6) of the relevant gazettes as stated in point 10 above and corresponding FIDPM Stages (1 to 7), is a prerequisite for payment of said stage. Only Construction Work Stage 5 will receive interim payments on a quarterly basis based on the proportion of the value of construction work completed at the time of invoice.

Payment of disbursements is based on a proven cost basis only in accordance with the National Department of Public Works, Rates for Reimbursable Expenses. Further clauses relating to the claiming and payment of fees and disbursements are stated under point 28 and C2. PRICING DATA.

Should deliverables as referenced under the Scope of Services (Section G, Item 10) not be required, fees will be adjusted downwards to align with the reduced scope of work.

Payment of fees shall be apportioned to Project Stages (Stages 1-6) according to the tables below:

Civil Engineering (Principal Consultant and Principal Agent)

Stage 2	25%
Stage 3	25%
Stage 4	15%
Stage 5	25%
Stage 6	10%

Structural Engineering

Stage 2	25%
Stage 3	25%
Stage 4	15%
Stage 5	25%
Stage 6	10%

Quantity Surveying

Stage 2	5%
Stage 3	7.5%
Stage 4	35%
Stage 5	45%
Stage 6	7.5%

Electrical Engineering

Stage 2	15%
Stage 3	20%
Stage 4	20%
Stage 5	35%
Stage 6	10%

Mechanical Engineering

Stage 2	15%
Stage 3	20%
Stage 4	20%
Stage 5	35%
Stage 6	10%

Fire Engineering

Stage 2	15%
Stage 3	20%
Stage 4	20%
Stage 5	35%
Stage 6	10%

Wet Services Engineering

Stage 2	15%
Stage 3	20%
Stage 4	20%
Stage 5	35%
Stage 6	10%

Construction Health and Safety

Stage 2	25%
Stage 3	25%
Stage 4	15%
Stage 5	25%
Stage 6	10%

26. Use of Documents by the Employer

Critical information, which will track the progress of the project, will be recorded and updated by the Lead Consultant on a monthly basis. These will be presented to the Employer as required by the Lead Consultant and other relevant professionals and may include but not be limited to the following documents:

- Progress reports
- Financial control methodology - cost reports and cash flows
- Risk registers including full risk assessments and mitigating action
- Issue registers including full analysis and action plans
- Project programmes

27. Mentorship of Employers Trainees / Interns

From time to time, the Employer may second trainees / interns to the Consultant/s. The Consultant/s shall provide structured mentorship and exposure to seconded trainees / interns. A training / activity schedule shall be prepared for each trainee / intern for the duration of his or her stay on the project. The schedule shall have clear targets and objectives, which will be measured at the end of the training period. The Consultant/s shall allocate a mentor for each trainee / intern who will be responsible for the learning outcomes for the period of secondment.

The mentorship and training falls beyond the Consultant/s obligations in terms of criteria under Section G – Specifications.

A separate training and mentorship agreement will be concluded with the Consultant/s at the time of placing trainees / interns.

28. Project Construction Cost

The estimated project works value is R 19 205 800.00 (Nineteen Million, Two Hundred and Five Thousand, Eight Hundred Rand (**Excluding of 15% VAT**)).

29. Cost and pricing of the project

Professional Fees for the team shall be tendered as a **PERCENTAGE** based on the value of the construction works. The percentage shall then be apportioned by percentage amongst the various professional disciplines. The percentage shall remain fixed for the entire project however the apportionment amongst the various disciplines may change should it be required. Changes to the apportionment are to be agreed by the Professional Team and the Employer is to be duly informed in writing by an official letter from the Principal Consultant, prior to any further payments. Disputes relating to the apportionment of total fees are to be resolved by the Professional Team.

The tendered percentage is to include for any and all surcharges applicable to the project for all professionals and **THE TENDERED PERCENTAGE SHALL REMAIN UNCHANGED FOR THE DURATION OF THE PROJECT**. All other adjustment of fees for each professional discipline will be regulated by the relevant Government Gazette (as stated in point 9 above).

Should deliverables as referenced under the Scope of Services (Section G, Item 10) not be required, fees will be adjusted downwards to align with the reduced scope of work.

30. Project Details

30.1. You are requested to quote for the delivery of Lead Consultant Services, Principal Agent Services and the appointment of a Multi-disciplinary team, and their total costs, which should as a minimum consist of:

- Civil Engineer/Technologist (Principal Consultant/Principal Agent)
- Structural Engineer/Technologist
- Quantity Surveyor
- Mechanical Engineer/Technologist
- Specialist Fire Engineer/Technologist
- Wet Services Engineer/Technologist
- Electrical Engineer/Technologist
- Construction Health and Safety Agent

To be appointed post award (via nominated sub-consultant route/quotations):

- Land Surveyor
- Geotechnical Engineer/Technologist
- Environmental Consultant

The relevant Guidelines are as per the following:

Structural, Civil, Mechanical, Fire, Wet Services & Electrical Engineers /Technologists	Engineering Council of South Africa, Board Notice 138 of 2015, Government Gazette No. 39480, 04 December 2015
Quantity Surveyor	The South African Council for the Quantity Surveying Professions, Board Notice 170 of 2015, Government Gazette No. 39134 of 28 August 2015
Construction Health and Safety	South African Council for the Project and Construction Management Professions, Board Notice 167 of 2019 Government Gazette No. 42697 of 13 September 2019

- 30.2. Consultants will be expected to attend all necessary meetings with various stakeholders as reasonably required.
- 30.3. Consultants will be expected to attend a minimum of two (2) site meetings per month during the construction stage. No full time supervision is required for the project and will not be compensated or remunerated for. The Lead Consultants are required to be on site as frequently as and when required per stage throughout the project.
- 30.4. Disbursements as published in the monthly National Department of Public Works "Rates for Reimbursable Expenses" shall be used as guideline. Discount can also be offered in this regards, but a maximum rate applicable shall be for vehicles up to 2150 cc.
- 30.5. Please note that total final fees payable will be calculated on final value of contract for "fee purposes" only or final contract cost estimates for "fee purposes" only - whichever may be applicable at the time.
- 30.6. You are requested to submit your bid using the FEE BASED QUOTE PROFORMA (Appendix A, Table 1), stamped utilizing your official company stamp and duly signed by the Registered Lead Professional who will be dedicated to this project and is based at the office address where the project is intended to be awarded.

31. Conditions Of Appointment

- 31.1. The Entity must have within their employment or display their ability to have access to the professional consultants as listed in paragraph 30.1 above. Multiple Principal consultant and Engineering Services may be subcontracted as suited for the packages. However, Principal consultant and Engineering Services consortiums and joint venture documentation must be included in the bid submission. Bidders are to provide a letter outlining the services to be provided in-house by the bidding entity, all outsourced subcontractors, as well as letters of agreement securing Professional Services for those professional disciplines to be provided by others. Failing to submit all documentation for the consortiums and joint ventures will lead to submission disqualification. Outsourced services agreement letters are to be signed by the bidder and the Principal of the outsourced firm and be on the bidder's official company letterhead. Furthermore, Form A must be completed confirming the firm and Registered Professional assigned to the project for each service. For the completion of the bid, only the Lead Civil Engineering firm will fill in their details as the main bidder. This information should also be reflected on Form A.

- 31.2. Upon project award, Consultants may only amend the list of the required Lead Professionals upon written replacement request to the Client. The replacement request will only be reviewed should the new Lead Professional be at the same level of qualification as the previously supplied name or better.
- 31.3. Registered Professionals listed as the Lead Professional for each Professional discipline on the project (as per Form A) must play an active and visible role on the project. Lead Professionals must attend a minimum of 70% of all meetings. Failure to comply with this condition will constitute a breach of this contract.
- 31.4. Consultants must submit all returnable documents as listed on Appendix B herein. Failure to submit all the requested documents will result in the bid not being considered.

32. Evaluation Criteria

The evaluation of bids will be conducted in three (3) phases:

PHASE 1: Responsiveness

- Correctness of bid document
- Compliance with SCM regulations (registration with Central Suppliers Database (CSD), Tax compliance, other prescripts requirements and submission of all documentation and information as per Appendix G)

PHASE 2: Eligibility and Quality/Functionality Evaluation

Eligibility Criteria

In order to be eligible to be awarded this bid, the following criteria MUST be satisfied:

- The professional multi-disciplinary team must, as a minimum, consist of the following 8 people:
 - Professional Registered Civil Engineer/Technologist (Lead Consultant/Principal Agent)
 - Professional Registered Structural Engineer/Technologist
 - Professional Registered Quantity Surveyor
 - Professional Registered Mechanical Engineer/Technologist
 - Professional Registered Fire Engineer/Technologist
 - Professional Registered Wet Services Engineer/Technologist
 - Professional Registered Electrical Engineer/Technologist

Depending on experience this can be the same person, ensure that the person's CV and professional registration documents are inserted for each of the three disciplines

WHERE ALL ABOVE PROFESSIONAL LEADS MUST HAVE A MINIMUM OF THREE (3) YEARS POST PROFESSIONAL REGISTRATION EXPERIENCE.

- Professional Registered Construction Health and Safety Agent

WHERE THE ABOVE PROFESSIONAL LEAD MUST HAVE A MINIMUM OF ONE (1) YEAR POST PROFESSIONAL REGISTRATION EXPERIENCE.

All Professionals are to be registered with the applicable South African regulating body/council for their Professional discipline. All Professional Leads must be Registered Professionals. All Registered Professionals must be in good-standing with their respective council and their membership must be valid.

Proof of Registration for each discipline shall be attached under the appropriate cover page provided under Appendix H. Failure to attach the valid Proof of Registrations in the provided designated sections will render the bid non-responsive and result in the bid being excluded from further consideration.

- Proof of all the relevant valid Professional Indemnity Insurance must be provided as per the minimum listed values below:
 - Civil Engineering: : R 5,0 million
 - Structural Engineering: R 5,0 million
 - Electrical Engineering: R 5,0 million
 - Mechanical Engineering: R 5,0 million
 - Quantity Surveyor: R 2,0 million
 - Health and Safety: R 1 million
 - Other: R 1,0 million

Proof of valid Professional Indemnity Insurance for each discipline shall be attached under the appropriate cover page provided under Appendix H. Failure to attach the valid Proof of Professional Indemnity Insurance in the provided designated sections will render the bid non-responsive and result in the bid being excluded from further consideration.

Professional Indemnity Insurance for all Professionals is to remain valid and in force for the full duration of the project and for the minimum amounts stated above. Failure to provide proof of valid and compliant Professional Indemnity Insurance Policies for all consultants, at any stage during the project when requested, will result in termination of services and damages claimable.

All eligibility criteria returnables should be tabbed, labelled and included in the designated areas as per the instructions below.

Eligibility criteria	Documentation to be provided
<p>1. The professional multi-disciplinary team must consist of:</p> <ul style="list-style-type: none"> • Registered Professional Civil Engineer/Technologist (Lead Consultant/Principal Agent) • Registered Professional Structural Engineer/Technologist • Registered Professional Quantity Surveyor • Registered Professional Mechanical • Registered Professional Specialist Fire Engineer/Technologist • Registered Professional Wet Services Engineer/Technologist • Registered Professional Electrical Engineer/Technologist <p>with a minimum of THREE (3) year post professional registration experience.</p> <ul style="list-style-type: none"> • Registered Professional Construction Health and Safety Agent <p>with a minimum of ONE (1) year post professional registration experience.</p>	<p>TAB LABEL: G-1</p> <p>Valid Proof of Registration (registered with the applicable South African regulating body/council for their Professional discipline) for each Professional Lead Member per discipline shall be attached under the appropriate cover page provided under Appendix H. Should the Fire Engineer/Technologist and Wet Services Engineer/Technologist differ from the Lead Mechanical Engineer/Technologist, proof of ECSA Professional Registration for these individuals must be provided under the Mechanical Engineer cover page.</p> <p>Completed Form A (Appendix E)</p>
<p>2. Proof of all the relevant valid Professional Indemnity Insurance must be provided as per the list below:</p> <ul style="list-style-type: none"> • Civil Engineering: R 5,0 million • Structural Engineering: R 5,0 million • Electrical Engineering: R 5,0 million • Mechanical/Fire/Wet Services Engineering: R 5,0 million • Quantity Surveyor: R 2,0 million • Health and Safety: R 1,0 million • Other: R 1,0 million 	<p>TAB LABEL: G-2</p> <p>Proof of valid Professional Indemnity Insurance for each discipline complying with the minimum amounts stated shall be attached under the appropriate cover page provided under Appendix H.</p>

ELIGIBILITY SUMMARY TABLE

NB: For Evaluation Committee use only

			Specific Project Eligibility Criteria			
			Professional Registration		Indemnity Insurance	
			Number of Years Post Registration Experience	Eligibility (Yes/NO)	Indemnity Amount Provided (R million)	Eligibility (Yes/NO)
Project Multi-disciplinary Team	1	Registered Professional Civil Engineer/Technologist (Lead Consultant/Principal Agent)				
	2	Registered Professional Structural Engineer/Technologist				
	3	Registered Professional Quantity Surveyor				
	4	Registered Professional Mechanical Engineer/Technologist				
	5	Registered Professional Specialist Fire Engineer/Technologist				
	6	Registered Professional Wet Services Engineer/Technologist				
	7	Registered Professional Electrical Engineer/Technologist				
	8	Registered Professional Construction Health and Safety Representative				
Comments:						

Quality/Functionality Criteria

Each bid is required to meet the minimum qualifying evaluation score of **70%** as per criteria below. All functionality/quality returnables should be tabbed, labelled and included in the designated areas as per the instructions below.

Evaluation criteria	Documentation to be provided
1. Bidder to demonstrate Technical Competency and relevant Experience relating to design and implementation of water and sewer reticulation systems with a value of over R10 million in the past 10 years per discipline (i.e. Civil Engineering, Structural Engineering,	<p>TAB LABEL: H-1</p> <p>1.1 Bidder to complete one (1) Curriculum Vitae (CV) for the allocated Lead Professionals per discipline. The required CVs may be from different firms, one firm allocated per one or more discipline. The following conditions must be met to receive points in this category:</p> <p>1.1.1. CVs must be filled and submitted on the provided template and inserted under the provided cover pages as Appendix I. Please refer to Appendix F for the CV template. Documents requested in 1.1.4. are compulsory and are to be inserted under the provided cover pages as Appendix I.</p>

Evaluation criteria	Documentation to be provided
<p>Quantity Surveying, Electrical Engineering, Mechanical Engineering, Fire Engineer/Technologist, Wet Services Engineer/Technologist, Construction Health and Safety)</p>	<p>1.1.2. CVs to be provided for the Lead Professionals per discipline for a MINIMUM total of 8 CVs. Each Lead Professional's experience must align to their allocated discipline.</p> <p>1.1.3. CVs provided must align with the information submitted in Form A (Appendix E).</p> <p>1.1.4. Completion certificates per project MUST be provided to obtain points for the Lead Professional per discipline for their past project experience (Maximum 3 projects and relevant to the Lead Professional per discipline and must align with project experience stated on the CV). Their past experience is not required to be from their current bidding Lead Professional firms. Past projects may be referenced from the Lead Professional's former employer(s).</p> <p>1.2. Contractor award letters OR signed final account summaries OR signed reference letters from the client; clearly stating the project value, project start date and end date MUST be provided to prove value of projects. Maximum 3 projects and relevant to the Lead Professional per discipline and must align with project experience stated on the CV). Their past experience is not required to be from their current bidding Lead Professional firms. Past projects may be referenced from the Lead Professional's former employer(s).</p> <p>Documents requested in 1.1.4 and 1.2. are compulsory and are to be inserted under the provided cover pages as Appendix I.</p> <p>Only the first 3 stated past projects per professional CV will be evaluated as per the CV template. Failure to meet the requirements of points 1.1.1 to 1.1.3 above will result in 0 points being awarded per CV submitted.</p> <p><u>Allocation of points will be as follows:</u></p> <ul style="list-style-type: none"> - 2 points will be awarded per completed compliant CV per discipline for each Lead Professional. - 0 points will be awarded for incorrectly completed, incomplete or no CV submitted on the required template and project experience that does not meet the above experience submission criteria. <p><u>AND</u></p> <ul style="list-style-type: none"> - 2 points will be awarded per past project that is of a Civil Engineering nature, is greater than R10 million in value and has been completed in the past 10 years, provided proof of value is submitted. - 1 points will be awarded per past project that is of a Civil Engineering and is between R10 million and R7 million in value and has been completed in the past 10 years, provided proof of value is submitted.

Evaluation criteria	Documentation to be provided
	<p>- 0 points will be awarded per past project that is of a Civil Engineering Works nature, is less than R7 million in value and has been completed in the past 10 years, provided proof of value is submitted.</p> <p>- 0 points will also be awarded for incomplete or no past project experience documentation submitted and projects that do not meet the above experience submission criteria.</p>
<p>2. Organogram of Resources Proposed for the Project per Professional Discipline</p>	<p>TAB LABEL: H-2</p> <p>2. One team organogram displaying the Civil Engineer/Technologist (Principal Consultant) and the Lead Professionals per discipline that falls under the Principal Consultant as part of the Multidisciplinary team. In addition an organogram per discipline that sets out the roles of each proposed team member and states the name and Professional Registration Number of the Lead Professional for the Project (Information provided for the Lead Professional member must align with Form A) must be provided. The following conditions must be met to receive points in this category:</p> <p>2.1. One team organogram to be provided</p> <p>2.2. Six individual organograms must be provided, 1 for each Professional Discipline i.e. Civil Engineering, Structural Engineering, Quantity Surveying, Electrical Engineering, Mechanical Engineering with Fire Engineering and Wet Services Engineering, Construction Health and Safety.</p> <p>2.3. Organograms must be inserted under the provided cover page as Appendix I</p> <p><u>Allocation of points will be as follows:</u></p> <p>- 6 points will be awarded for the submission of a team organogram detailing the Civil Engineer/Technologist (Principal Consultant) and all other Lead Professionals per discipline.</p> <p>- 0 points will be awarded for no submission and irrelevant submissions.</p> <p>AND</p> <p>- 5 points will be awarded per organogram per discipline for fully completed organograms that comply fully with the above instructions.</p> <p>- 2 points will be awarded per organogram per discipline for organograms that partially comply with the above instructions.</p> <p>- 0 points will be awarded for no submission and irrelevant submissions.</p>

FUNCTIONALITY SCORING TABLE
NB: For Evaluation Committee use only

			Specific Project Functionality Criteria								
			CV's		Project Experience (Max. of 3 projects)		Multi-disciplinary Team Organogram		Individual Discipline Organogram		
			Maximum Points	Points Allocated	Maximum Points	Points Allocated	Maximum Points	Points Allocated	Maximum Points	Points Allocated	
Project Multi-disciplinary Team	1	Registered Professional Civil Engineer/Technologist (Lead Consultant/Principal Agent)	2		6		6			5	
	2	Registered Professional Structural Engineer/Technologist	2		6					5	
	3	Registered Professional Quantity Surveyor	2		6					5	
	4	Registered Professional Mechanical Engineer/Technologist	2		6					5	
	5	Registered Professional Specialist Fire Engineer/Technologist	2		6					Incl.	Incl.
	6	Registered Professional Wet Services Engineer/Technologist	2		6					Incl.	Incl.
	7	Registered Professional Electrical Engineer/Technologist	2		6					5	
	8	Registered Professional Construction Health and Safety Representative	2		6					5	
		Sub-Total Points	16		48					6		30
TOTAL SCORE			...../100								

1. Eligible Y/N: _____ 2. Functionality points: _____/100 3. Above 70% threshold Y/N: _____ 4. Bid value: (Rands) _____
--

PHASE 3: Price and Preference

- Tendered Price and preference points
- Evaluation using the Point System

The following special conditions are applicable to the evaluation of this tender:

- The Department reserves the right not to award to the lowest bidder.
- The Department will conduct a detailed risk assessment prior to the award.

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 (BBBEE) 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.

33. General conditions

33.1. The following preference point system are applicable to this bids:

The 80/20 preference point system will be applicable to this tender

33.2. Points for this bid shall be awarded for:

- Price; and
- B-BBEE Status Level of Contributor.

33.3. The maximum points for this bid are allocated as follows:

	POINTS
PRICE	80
B-BBEE STATUS LEVEL OF CONTRIBUTOR	20
Total points for Price and B-BBEE must not exceed	100

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

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

34. Definitions

“B-BBEE” means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;

“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;

“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 bids, advertised competitive bidding processes or proposals;

“Broad-Based Black Economic Empowerment Act” means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);

“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;

“functionality” means the ability of a bidder to provide goods or services in accordance with specifications as set out in the tender documents.

“prices” includes all applicable taxes less all unconditional discounts;

“proof of B-BBEE status level of contributor” means:

- B-BBEE Status level certificate issued by an authorized body or person;
- A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
- Any other requirement prescribed in terms of the B-BBEE Act;

“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;

“rand value” means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

35. Points awarded for price

The 80/20 Preference Point System

A maximum of 80 points is allocated for price on the following basis:
80/20

$$P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

Where

P_s = Points scored for price of bid under consideration
 P_t = Price of bid under consideration
 P_{\min} = Price of lowest acceptable bid

Points Awarded for BBBEE Status Level Of Contributor

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 BBBEE status level of contribution in accordance with the table below:

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

Bid Declaration

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

BBBEE Status Level Of Contributor Claimed:

BBEE Status Level of Contributor: _____ = _____ (maximum of 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.

36. Sub-Contracting

Will any portion of the contract be sub-contracted?

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

36.1.1. If yes, indicate:

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

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

- 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	<input type="checkbox"/>	<input type="checkbox"/>
Black people who are youth	<input type="checkbox"/>	<input type="checkbox"/>
Black people who are women	<input type="checkbox"/>	<input type="checkbox"/>
Black people with disabilities	<input type="checkbox"/>	<input type="checkbox"/>
Black people living in rural or underdeveloped areas or townships	<input type="checkbox"/>	<input type="checkbox"/>
Cooperative owned by black people	<input type="checkbox"/>	<input type="checkbox"/>
Black people who are military veterans	<input type="checkbox"/>	<input type="checkbox"/>
OR		
Any EME	<input type="checkbox"/>	<input type="checkbox"/>
Any QSE	<input type="checkbox"/>	<input type="checkbox"/>

37. Declaration with regard to Company/Firm

37.1. Name of company/firm:

37.2. VAT registration number:

37.3. Company registration number:

37.4. Type of Company/ Firm

(Tick applicable box)

<input type="checkbox"/>	One-person business/sole propriety
<input type="checkbox"/>	Company
<input type="checkbox"/>	Partnership/Joint Venture / Consortium
<input type="checkbox"/>	Close corporation
<input type="checkbox"/>	(Pty) Limited

37.5. Describe principal business activities

37.6. Company classification

(Tick applicable box)

<input type="checkbox"/>	Manufacturer
<input type="checkbox"/>	Supplier
<input type="checkbox"/>	Professional service provider
<input type="checkbox"/>	Other service providers, e.g. transporter, etc.

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

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-BBEE 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 –

- disqualify the person from the bidding process;
- recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
- 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;
- 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
- forward the matter for criminal prosecution.

Signature/s of Bidder/s
Date
Address:

Signature/s of Witnesses
Witness 1:
Witness 2:

SECTION I

TAX COMPLIANCE STATUS (TCS)

1. The State / Province may not award a contract resulting from the invitation of bids to a bidder who is not properly registered and up to date with tax payments or, has not made satisfactory arrangements with SA Revenue Services concerning due tax payments.
2. The South African Revenue Services (SARS) has phased out the issuing of paper Tax Clearance Certificates. From 18 April 2016, SARS introduced an enhanced Tax Compliance system. The new system allows taxpayers to obtain a Tax Compliance Status (TCS) PIN, which can be utilized by authorized third parties to verify taxpayers' compliance status on line via SARS e-filing.
3. Bidders are required to apply via e-filing at any SARS branch office nationally. The Tax Compliance Status (TCS) requirements are also available to foreign bidders / individuals who wish to submit bids.
4. SARS will then furnish the bidder with a Tax Compliance Status (TCS) PIN that will be valid for a period of 1 (one) year from the date of approval.
5. In bids where Consortia / Joint Venture / Sub-contractors are involved, each party must submit a separate Tax Compliance Status (TCS) PIN.
6. Application for Tax Compliance Status (TCS) PIN can be done via e-filing at any SARS branch office nationally or on the website www.sars.gov.za.
7. Tax Clearance Certificates may be printed via e-filing. In order to use this provision, taxpayers will need to register with SARS as an e-Filer through the website www.sars.gov.za.
8. Tax Compliance Status is not required for services below R 30 000.00 ITO Practice Note Number: SCM 13 of 2007.
9. Kindly either provide an original tax clearance certificate, your tax number or pin number.

TAX NUMBER:

PIN NUMBER:

SECTION J
AUTHORITY TO SIGN A BID

A Companies

If a Bidder is a company, a certified copy of the resolution by the board of directors, personally signed by the chairperson of the board, authorising the person who signs this bid to do so, as well as to sign any contract resulting from this bid and any other documents and correspondence in connection with this bid and/or contract on behalf of the company must be submitted with this bid, that is before the closing time and date of the bid

Authority by Board of Directors

By resolution passed by the Board of Directors on

.....
(date)

.....
(name and whose signature appears below)

has been duly authorised to sign all documents in connection with this bid on behalf of

.....
(Name of Company)

In his/her capacity as:

.....
Signed on behalf of Company:

.....
(print name)

.....
Signature of signatory:

.....
Date:

Witnesses:

1.

2.

B Sole proprietor (one - person business)

I, the undersigned

(name)

Hereby confirm that I am the sole owner of the business trading as

(name)

Signature of signatory:

Date

C Partnership

The following particulars in respect of every partner must be furnished and signed by every partner:

Full name of partner	Residential address	Signature

We, the undersigned partners in the business trading as

_____ (name)

hereby authorized

_____ (name)

to sign this bid as well as any contract resulting from the bid and any other documents and correspondence in connection with this bid and /or contract on behalf of:

_____ (print name)

Signature of signatory: _____

Date: _____

_____ (print name)

Signature of signatory: _____

Date: _____

_____ (print name)

Signature of signatory: _____

Date: _____

D Close Corporation

In the case of a Close Corporation submitting a bid, a certified copy of the Founding Statement of such corporation shall be included with the bid, together with the resolution by its members authorising a member or other official of the corporation to sign the documents on their behalf.

Authority to sign on behalf of the Close Corporation

By resolution of members at a meeting on

(date)

(name and whose signature appears below)

has been duly authorised to sign all documents in connection with this bid on behalf of

(Name of Closed Corporation)

In his/her capacity as:

Signed on behalf of Closed Corporation:

(print name)

Signature of signatory:

Date:

Witnesses:

1. _____

2. _____

E Co-Operative

A certified copy of the Constitution of the Co-operative must be included with the bid, together with the resolution by its members authoring a member or other official of the co-operative to sign the bid documents on their behalf.

Authority to sign on behalf of the Co-Operative

By resolution of members at a meeting on

(date)

(name and whose signature appears below)

has been duly authorised to sign all documents in connection with this bid on behalf of

(Name of Co-Operative)

In his/her capacity as:

Signed on behalf of Co-Operative:

(print name)

Signature of signatory:

Date:

Witnesses:

1.

2.

F Joint Venture

If a bidder is a joint venture, a certified copy of the resolution/agreement passed/reached signed by the duly authorised representatives of the enterprises, authorising the representatives who sign this bid to do so, as well as to sign any contract resulting from this bid and any other documents and correspondence in connection with this bid and/or contract on behalf of the joint venture must be submitted with this bid, before the closing time and date of the bid.

Authority to sign on behalf of the Joint Venture

By resolution/agreement passed/reached by the Joint Venture partners on

(date)

(name and whose signature appears below)

(name and whose signature appears below)

(name and whose signature appears below)

(name and whose signature appears below)

has been duly authorised to sign all documents in connection with this bid on behalf of

(Name of Joint Venture)

In his/her capacity as:

Signed on behalf of Joint Venture:

(print name)

Signature of signatory:

Date:

(print name)

Signature of signatory:

Date:

(print name)

Signature of signatory:

Date:

(print name)

Signature of signatory:

Date:

G Consortium

If a bidder is a Consortium, a certified copy of the resolution/agreement passed/reached signed by the duly authorised representatives of concerned enterprises, authorising the representatives who sign this bid to do so, as well as to sign any contract resulting from this bid and any other documents and correspondence in connection with this bid and/or contract on behalf of the consortium must be submitted with this bid, before the closing time and date of the bid.

Authority to sign on behalf of the Consortium

By resolution of the members on

(date)

(name and whose signature appears below)

has been duly authorised to sign all documents in connection with this bid on behalf of

(Name of Consortium)

In his/her capacity as:

Signed on behalf of Consortium:

(print name)

Signature of signatory:

Date:

(print name)

Signature of signatory:

Date:

(print name)

Signature of signatory:

Date:

APPENDICES

APPENDIX A - BID PROFORMA

(To be completed by the Lead Consultant)

General Notes -

- Bidders are requested to complete Table 1 and Table 2 of Appendix A. The total fees from Table 1 must be carried to the form of offer.
- Preference Points (based on the PRICE only) and Total Percentage offered take precedence over any additional detailed fee calculations submitted, where there is any ambiguity
- Bidders are to tender a total percentage (to 2 decimal places) for the entire team based on the value of work for fees estimate. This percentage will remain fixed throughout the project and is deemed to include for any surcharges due to alterations works and for Principal Consultant and Principal Agent Fees.
- Disbursements shall be allowed for as stipulated in Table 1 but shall be claimed and paid on a PROVEN COST BASIS ONLY. The Land Surveyor, Geotechnical Engineer/Technologist and Environmental Specialist costs will be paid from the disbursement allowance. Disbursement rates as published in the monthly National Department of Public Works "Rates for Reimbursable Expenses" shall be used for claiming.
- The estimated Value of Work for Fees is an estimate and not the final value. The tendered PERCENTAGE will be based on the actual project works value determined upon project completion.
- Table below is NOT to be modified by Tenderer

TABLE 1

Value of Work for Fees	R 19 205 800.00
Total Tendered Fee Percentage for Team (to 2 decimal places)	%
Total Fees for Team	R
ADD Allowance for Disbursements	R 490 000.00
Sub-Total	R
ADD VAT at 15%	R
GRAND TOTAL (to be carried to the Form of Offer and Acceptance)	R

COMPANY STAMP:

DATE:

TABLE 2 – APPORTIONMENT OF FEES

Principal Consultant / Principal Agent/ Civil Engineer/Technologist	%
Structural Engineer/Technologist	%
Quantity Surveyor	%
Electrical Engineer/Technologist	%
Mechanical Engineer/Technologist including Specialist Fire Engineer/Technologist and Wet Services Engineer/Technologist	%
Construction Health and Safety	%
TOTAL TENDERED FEE PERCENTAGE FOR TEAM (to 2 decimal places)	%

<p>COMPANY STAMP:</p> <p>DATE:</p>

APPENDIX B – RETURNABLE DOCUMENTS

CHECKLIST OF RETURNABLE DOCUMENTS			
Item No.	Required Documents	Tick	
		Yes	No
Please ensure the following items are fully completed and complied with:			
1.	Bid from the Consultant (Attach Appendix A – Stamped and dated)		
2.	Central Supplier Database Registration with National Treasury (Unique Reference Number & Supplier Number)		
3.	Declaration that information on central supplier database is correct and up to date		
4.	Declaration of interest by Consultant – SBD 4		
5.	Official Briefing Session / Site Inspection Certificate *		
6.	Valid SARS Tax Clearance Pin Number, Tax number or original tax Clearance certificate (Tax clearance certificate to be included under Appendix G)		
7.	Authority To Sign A Bid		
The following documents are to be submitted under Appendix: G			
8.	Proof of Registration with Companies and Intellectual Property Commission (CIPC)		
9.	Proof of Residential Address (Municipality Rates Bills, Telephone Bill, or current lease agreement letter from Ward councillor or affidavit from Commissioner of oaths, if office is in an area where rates are not paid)		
The following documents are to be submitted under Appendix H under the relevant cover pages:			
10.	Proof of Registration with Council / Professional Body for all Lead Professionals (Attach Letter of Good standing with the relevant council if applicable dated during the year of Bid)		
11.	Proof of the relevant professional Indemnity Insurance – Civil, Structural Engineering: R 5,0 million each Electrical, Mechanical Engineering: R 5,0 million each Quantity Surveyor: R 2,0 million Health and Safety: R 1,0 million Other: R1,0 million		
The following documents are to be submitted under Appendix I under the relevant cover pages:			
12.	CVs per Lead Professional including supporting documentation (completion certificates and award letters / signed final accounts / reference letters)		
13.	Organograms for entire team and one for each Professional Discipline Team		

BIDDERS TO NOTE

Submission of the above returnable documents is mandatory. Failure to submit all the requested documents will result in the tender not being considered.

* A letter indicating which discipline's firm attended the brief meeting on behalf of which Lead Civil Engineering firm should be appended to the Briefing Session Certificate. The letter should be signed by both the attendee and Lead Civil Engineering firm.

APPENDIX C - CONTRACT DATA

C1. Contract Data

C1.1 Standard Professional Services Contract

The conditions applicable to this Contract are the Standard Professional Services Contract (July 2009) Third Edition of CIDB document 1015, published by the Construction Industry Development Board.

C1.1.1 Data provided by the Employer

Clause	
	<p>The General Conditions of Contract in the Standard Professional Services Contract (July 2009) make several references to the Contract Data for details that apply specifically to this tender. The Contract Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the General Conditions of Contract.</p> <p>Each item of data given below is cross-referenced to the clause in the General Conditions of Contract to which it mainly applies.</p>
	The Employer is the KZN Department of Health.
3.4 and 4.3.2	The authorised and designated representative of the Employer is the departmental project manager, details of whom are as indicated in the Notice and Invitation to Tender.
1	The Project is for the provision of complete Professional Consultancy (including Lead Consultancy) Services for the UPGRADING OF WATER AND SEWER RETICULATION SYSTEMS AT TOWNHILL HOSPITAL
1	The Period of Performance is from inception of this Contract until the Service Provider has completed all Deliverables in accordance with the Scope of Services listed in Section G of the bid document.
1	The Start Date is the date from which this contract is fully signed and accepted by the KZN Department of Health
3.4.1	Communications by facsimile is not permitted.
3.5	The Services shall be executed in the Service Provider's own office and on the Project site as described in Section G. No portion of the work may be performed by a person employed by the State. No portion of the work may be sublet to any other person or persons without the prior written approval of the Employer.
3.6	Omit the following: "... within two (2) years of completion of the Service ...".
3.12	<p>Period of Performance shall be sub dividable in separate target dates according to the programme to be submitted in terms of SECTION G part 7 hereof.</p> <p>A Penalty amount of R500.00 per day will be applicable per target date, to a maximum equal to R50,000.00, after which the contract may be terminated.</p>
3.15.1	The programme shall be submitted within 14 days of the award of the contract.
3.15.2	The Service Provider shall update the programme at intervals not exceeding 8 weeks.
3.16	Time-based fees are not applicable to this appointment and therefore no adjustments for inflation are applicable.
5.4.1	The Service Provider is required to provide professional indemnity cover as set out in the Professional Indemnity Schedule as per point 12 of Appendix B.

Clause	
5.5	The Service Provider is required to obtain the Employer's prior approval in writing before taking any of the following actions: a) Deviate from the programme (delayed or earlier); b) Deviate from or change the Scope of Services; c) Change Key Personnel on the Service.
8.1	The Service Provider is to commence the performance of the Services immediately after the Contract becomes effective and execution to be as per the programme.
8.4.3 (c)	The period of suspension under clause 8.5 is not to exceed two (2) years.
9.1	Copyright of documents prepared for the Project shall be vested with the Employer.
12.1.	Interim settlement of disputes is to be by mediation.
12.2. / 12.3.	Final settlement is by litigation.
12.2.1	In the event that the Parties fail to agree on a mediator, the mediator is to be nominated by the president of the Association of Arbitrators (Southern Africa).
13.1.3	All partners in a joint venture or consortium shall carry the same professional indemnity insurance as per clause 5.4.1 of the General Conditions of Contract.
13.5.1	The amount of compensation is unlimited.
13.6	The provisions of 13.6 do not apply to the Contract.
15	In respect of any amount owed by the Service Provider to the Employer, the Service Provider shall pay the Employer interest at the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No 1 of 1999).

C1.2.3 Data provided by the Service Provider

Clause	
	Each item of data given below is cross-referenced to the clause in the General Conditions of Contract to which it mainly applies.
1	The Service Provider is the company, close corporation, natural person, consortium, joint venture or partnership named in Form of Offer and Acceptance by the tendering Service Provider.
5.3	The authorised and designated representative of the Service Provider is the Lead Consultant / Professional Civil Engineer/Technologist named on the Project by the Service Provider
5.4.1	<p>Indemnification of the Employer</p> <p>I, the undersigned, being duly authorized by the Service Provider, in terms of the completed resolution</p> <p>_____</p> <p>(Name of authorized person)</p> <p>hereby confirm that the Service Provider known as:</p> <p>_____</p> <p>(Legal name of entity tendering herein)</p>

Clause	
5.4.1	<p data-bbox="325 264 612 293">Tendering on the project:</p> <p data-bbox="325 450 960 479">_____ (Name of project as per Form of Offer and Acceptance)</p> <p data-bbox="268 528 1493 757">holds professional indemnity insurance cover, from an approved insurer, duly registered with the Finance Services Board, of not less than the amount required as cover relative to the size of project, with the first amount payable not exceeding 5% of the value of indemnity. I further confirm that the Service Provider will keep such professional indemnity fully subscribed. I further confirm that should the professional indemnity insurance, with no knowledge of the Employer, be allowed to lapse at any time or in the event of the Service Provider cancelling such professional indemnity insurance, with no knowledge of the Employer, at any time or if such professional indemnity cover is not sufficient, then the Service Provider,</p> <ul data-bbox="300 792 1493 958" style="list-style-type: none"> i. accepts herewith full liability for the due fulfilment of all obligations in respect of this Service; and ii. hereby indemnifies, and undertakes to keep indemnified, the Employer in respect of all actions, proceedings, liability, claims, damages, costs and expenses in relation to and arising out of the agreement and/or from the aforesaid Service Provider's intentional and/or negligent wrongful acts, errors and/or omissions in its performance on this Contract. <p data-bbox="268 999 1493 1093">I confirm that the Service Provider undertakes to keep the Employer indemnified, as indicated above, beyond the Final Completion Certificate/Final Certificate by the Employer (whichever is applicable) for a period of five (5) years after the issue of such applicable certificate.</p> <p data-bbox="268 1133 1493 1227">I confirm that the Service Provider renounces the benefit of the <i>exceptionis non causa debiti, non numeratae pecuniae</i> and <i>excussionis</i> or any other exceptions which may be legally raised against the enforceability of this indemnification.</p> <p data-bbox="268 1267 1493 1361">Notwithstanding the indemnification required above, the Employer reserves the right to claim damages from the Service Provider for this Project where the Service Provider neglects to discharge its obligations in terms of this agreement.</p> <p data-bbox="306 1473 386 1503">Name:</p> <p data-bbox="306 1585 427 1615">_____ Signature:</p> <p data-bbox="306 1697 418 1727">_____ Capacity:</p>

Clause			
7.1.2	<p>As an extension of the definitions contained in clause 1 hereof, Key Persons must, for the purposes of this Contract, include one or more of the professionally registered principal(s) of the Service Provider, and/or, one or more professional(s) employed to render professional services, for whom certified copies of certificates or other documentation clearly proving current professional registration with the relevant council, including registration numbers, must be included with the tender as part of the returnable documentation.</p> <p>The Key Persons and their jobs / functions in relation to the Services are:</p>		
	Name	Principal employed professional(s) and/or	Specific duties
	1.		
	2.		
	3.		
	4.		
	5.		
	6.		
	7.		
	8.		
	9.		
10.			
7.2	A Personnel Schedule is not required.		
	<p>If the space provided in the table above is not sufficient to describe the specific duties, this space may be utilized for such purpose</p>		

C2: PRICING DATA

C2.1 Pricing Instructions

C2.1.1 Basis of remuneration, method of tendering and estimated fees

C2.1.1.1 Professional fees for the Multi-Disciplinary Services will be paid on Value basis.

The words "value based" and "percentage based" used in connection with fee types in this document or any documents referred to in this document are interchangeable and are deemed to have the same meaning.

C2.1.1.2 Tenderers are to tender:

A value based fee utilizing the stated estimated project construction value multiplied by a fixed tendered percentage which is then apportioned amongst the multi-disciplinary team.

C2.1.1.3 The amount tendered herein (*Section F – Form of Offer and Acceptance*) is for tender purposes only and will be amended according to the application of the actual cost of construction.

C2.1.1.4 Reimbursable rates for typing, printing and duplicating work shall be in accordance with the conditions laid out under section C2.1.5

C2.1.1.5 For the purposes of this contract, travelling expenses for Consultants from their base to and from the construction site will not be paid. Travelling expenses will be deemed to be included in the final offer.

C2.1.1.6 Not Applicable.

C2.1.1.7 All fee accounts need to be signed by a principal of the Service Provider and submitted in original format, failing which the accounts will be returned. Copies, facsimiles, electronic and other versions of fee accounts will not be considered for payment.

C2.1.1.8 For all Services provided on a time basis, time sheets giving full particulars of the work, date of execution and time duration, should be submitted with each fee account.

C2.1.1.9 Payments to the Service Provider will be made electronically according to the banking details furnished by the Service Provider. Any change in such banking details must be communicated to the departmental project manager timeously. Fee accounts, correct in all respects, will be deemed submitted when received by the Employer and settled when electronically processed by the Employer. The Employer reserves the right to dispute the whole account, any item or part of an item at any time and will deal with such case in terms of clause 14.3 of the General Conditions of Contract.

C2.1.1.10 Accounts for Services rendered may be submitted on the successful completion of each stage of work. Interim accounts will only be considered during the construction stage of the works and then not more frequently than quarterly except if otherwise agreed between the authorised and designated representative of the Service Provider and the Employer. Payment of accounts rendered will be subject to the checking thereof by the departmental project manager. The Employer reserves the right to amend the amounts claimed in order to conform to the rates stipulated in this Contract and make payment on the basis of the balance of the account in accordance with clause 14.3 of the General Conditions of Contract.

C2.1.2 Value based fees

C2.1.2.1 Fees for work done under a value based fee shall be calculated according to the tendered percentage for fees for the team and apportioned to construction stages (for each professional discipline) as stated in this document.

C2.1.2.2 Interim payments to the Service Provider

For the purposes of ascertaining the interim payments due, the cost of the works, which shall exclude any provisional allowances made to cover contingencies and escalation, shall be:

- the applicable portion of the net amount of the accepted tender

C2.1.2.3 Fees for documentation for work covered by a provisional sum

Where a provisional sum is included in the bills of quantities for work to be documented at a later stage, the documentation fee in respect of such work shall be remunerated at the time when the documentation has been completed.

C2.1.2.4 Time charges for work done under a value based fee (upon approval by Head of Health)

Time charges are reimbursable at rates applicable at the time of the actual execution of the specific service adjustable utilizing the discount for time based fees offered within the tender document. The "Rates for Reimbursable Expenses" as amended from time to time and referred to below, is obtainable on the Website: <http://www.publicworks.gov.za/> under "Documents"; "Consultants Guidelines"; item 1.

C2.1.2.5 Unless otherwise specifically agreed in writing, remuneration for the time expended by principals in terms of time based fees on a project shall be limited to 5 per cent of the total time expended for time charges in respect of the Project. Any time expended by principals in excess of the 5 per cent limit shall be remunerated at the rates determined in (ii) or (iii) above.

C2.1.3 Additional Services

C2.1.3.1 Additional Services pertaining to all Stages of the Project

Unless separately provided for hereunder and scheduled in the Activity Schedule, no separate payment shall be made for the additional services specified in the relevant tariff of fees guide. The cost of providing these services shall be deemed to be included in the value based fee tendered for normal services.

C2.1.3.2 Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)

No separate payment shall be made. The cost of providing this service shall be deemed to be included in the value based fee tendered for normal services.

C2.1.3.3 Quality Assurance System

No separate payment shall be made for the implementation of a quality management system. The cost of providing this service shall be deemed to be included in the value based fee tendered for normal services.

C2.1.3.4 Lead Consulting Engineer

No separate payment shall be made for assuming the leadership of an Employer specified joint venture, consortium or team of consulting engineers. The cost of providing this service shall be deemed to be included in the value based fee tendered for normal services.

C2.1.3.5 Principal Agent of the Client

No separate payment shall be made for assuming the role of principle agent. The cost of providing this service shall be deemed to be included in the value based fee tendered for normal services.

- C2.1.4 Set off
The Employer reserves the right to set off against any amount payable to the Service Provider, any sum which is owing by the Service Provider to the Employer in respect of this or any other project.
- C2.1.5 Typing, printing and duplicating work
- C2.1.5.1 Reimbursable rates
The costs of typing, printing and duplicating work in connection with the documentation which must of necessity be done, except those which must in terms of the relevant Manual or other instructions be provided free of charge, shall be reimbursable at rates applicable at the time of the execution of such work. The document "Rates for Reimbursable Expenses" as amended from time to time and referred to below, is obtainable on the Website: : <http://www.publicworks.gov.za/> under "Documents"; "Consultants Guidelines"; item 1.
- C2.1.5.2 Typing and duplicating
If the Service Provider cannot undertake the work himself, he may have it done by another service provider which specializes in this type of work and he shall be paid the actual costs incurred upon submission of statements and receipts which have been endorsed by him confirming that the tariff is the most economical for the locality concerned subject to the maximum tariffs per A4 sheet as set out in Table 1 in the "Rates for Reimbursable Expenses".
- If the Service Provider undertakes the work himself, he shall be paid in respect of actual expenses incurred subject to the maximum tariffs per A4 sheet as set out in Table 1 in the "Rates for Reimbursable Expenses".
- Typing and duplicating expenses shall only be refunded in respect of the final copies of the following documents namely formal reports, formal soil investigation reports, specifications, feasibility reports, bills of quantities, material lists, minutes of site meetings and final accounts. The cost of printed hard covers shall only be paid in respect of documents which will be made available to the public such as bills of quantities and specifications or where provision of hard covers is specifically approved.
- The typing of correspondence, appendices and covering letters are deemed to be included in the value based fees and time based fees paid.
- C2.1.6 Travelling and subsistence arrangements and tariffs of charges.
- For the purposes of this contract, travelling expenses for Consultants from their base to and from the construction site will not be paid. Travelling expenses will be deemed to be included in the final offer.
- C2.1.6.1 General
The most economical mode of transport is to be used taking into account the cost of transport, subsistence and time. Accounts not rendered in accordance herewith may be reduced to an amount determined by the Employer.
- As the tariffs referred to hereunder are adjusted from time to time, accounts must be calculated at the tariff applicable at the time of the expenditure.
- Where journeys and resultant costs are in the Employer's opinion related to a Service Provider's mal- performance or failure, in terms of this Contract, to properly document or co-ordinate the work or to manage the Contract, no claims for such costs will be considered.
- C2.1.6.2 Travelling time
No travelling time shall be paid on this project.

- C2.1.6.3 Travelling costs
Fees for travelling costs are as set out in Table 3 in the "Rates for Reimbursable Expenses".

Travelling costs will be refunded for the full distance covered per return trip measured from the office of the Service Provider appointed provided that the destination is greater than 50km away (one way) from the Service Provider's stated office address at the time of tender. Travelling costs related to trips to the site shall not be claimable and will be deemed to be included in your tendered professional fee. Travel costs will only be considered where the Service Provider has been requested to attend an off-site meeting with the destination being further than 50km (one way) from the Service Provider's office.

Compensation for the use of private motor transport will be in accordance with the Government tariff for the relevant engine swept volume, up to a maximum of 2150 cubic centimetres, prescribed from time to time and as set out in Table 3 in the "Rates for Reimbursable Expenses".

C2.2 Activity Schedule

C2.2.1 Activities

C2.2.1.1 For services where the apportionment of fees is not provided for in SECTION G, proportioning of the fee for normal services over the various stages shall be as set out in the relevant Government Gazetted Tariffs.

C2.2.1.2 The tenderer must make provision for all activities necessary for the execution of the service as set out in the Scope of Services.

APPENDIX D: PROJECT BRIEF

534/21



health
Department:
Health
PROVINCE OF KWAZULU-NATAL

DIRECTORATE

Physical Address: 35 Hyslop Road, TownHill Office Park, Pietermaritzburg 3200
Physical Address: Private Bag x 9051, Pietermaritzburg, 3201
Tel: 033 940 2539 Fax: NA Email: musa.ngcobo@kznhealth.gov.za
www.kznhealth.gov.za

INFRASTRUCTURE DEVELOPMENT

PROJECT BRIEF

Installation of 72-Hour Emergency Water Storage System at Town Hill Hospital

Drafted by: Mr MR Ngcobo
Project Leader

Signed: 

Date: 06/10/2021

Reviewed by: Mr ET Chiro
Chief Civil Engineer

Signed: 

Date: 13/10/2021

Recommended by: Mr ST Mhlongo
Director :
Infrastructure Development and
Technical Services

Signed: 

Date: 13/10/2021

Approved by: MR B Gcaba
Chief Director:
Infrastructure Development

Signed: 

Date: 26/10/2021

Document Control

Revision Number	Date	Initials
Rev 0	31 July 2021	MR
Rev 1	20 Aug 2021	MR

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6	Signatures.....	26

1. Project Details

1.1. The Facility

• Facility Name	Town Hill Hospital
• Facility Number	F002329
• Facility Type	District Hospital - Psychiatric
• Facility Owner	KZN Department of Health
• Portion	To be confirmed
• Deeds Description:	To be confirmed
• Title Deed Number:	To be confirmed

1.2. Location

Town Hill Hospital is a Specialised Psychiatric Hospital in Pietermaritzburg, Umgungundlovu District. Built in the 1880's as an Asylum for mentally ill individuals, it was named Pietermaritzburg Mental Hospital in 1916 and in 1946 the hospital was renamed as Town Hill Hospital. Just as the name kept changing so did the services of the hospital. From one of custodial care to one of Psychosocial Rehabilitation and reintegration into community.

Source: *Town Hill Hospital Website*

Townhill Hospital is situated in the Natal Midlands with temperatures reaching around 30°C in summer and sub-zero temperatures in winter. This hospital is situated in a summer rainfall area with annual rainfall of approximately 900mm and precipitation reaching its peak in January. The driest months are from June to August.

Site Information:

Facility Name	Town Hill Hospital			
Land Use	District Hospital			
Land Owner	KZN Department of Health			
Number of Beds	425			
Street Address	35 Hyslop Road, Pietermaritzburg			
Postal Address	PO Box 400, Pietermaritzburg, 3200			
Telephone No.	033 3415500			
Cadastral Description	Latitude	-29.590644	Longitude	30.366134
Zoning	Government Facility			
Planning Restrictions	Msunduzi Municipality			
Existing Infrastructure	Multiple buildings mostly built in the late 1800s and early 1900s. The facility is experiencing huge challenges with respect to their aging infrastructure. The watermain, sewer and stormwater infrastructure is old and in a state of disrepair.			
Existing Services	Municipal supply of water, electricity, sewerage and stormwater. There are no storage facilities for potable water and fire reticulation to cater for intermittent infrastructure breakdowns or interruptions in the municipal supply.			

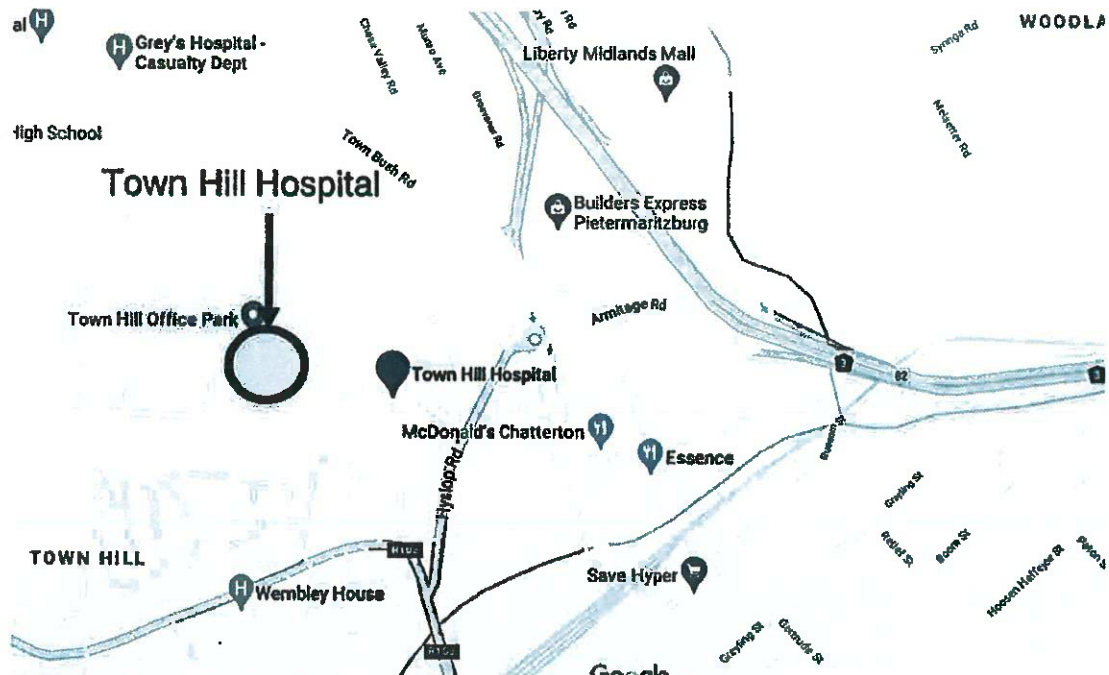


Figure 1: Location of Town Hill Hospital within the Pietermaritzburg Precinct
 Source: Google Maps

Figure 1 above shows the location of Town Hill Hospital in relation to the Pietermaritzburg CBD, surrounding suburbs and the existing road network.

Access to the site can be via either of these routes:

- National Route, N3 Freeway – Take Liberty Mall Off-Ramp into Armitage Road and proceed westward into Hyslop Road.
- Hyslop Road can also be accessed from the northern suburbs via Old Howick Road or Town Bush Road.
- From the CBD take Chief Albert Luthuli Street and proceed northward towards the Royal Show Grounds and turn right into Hyslop Road.

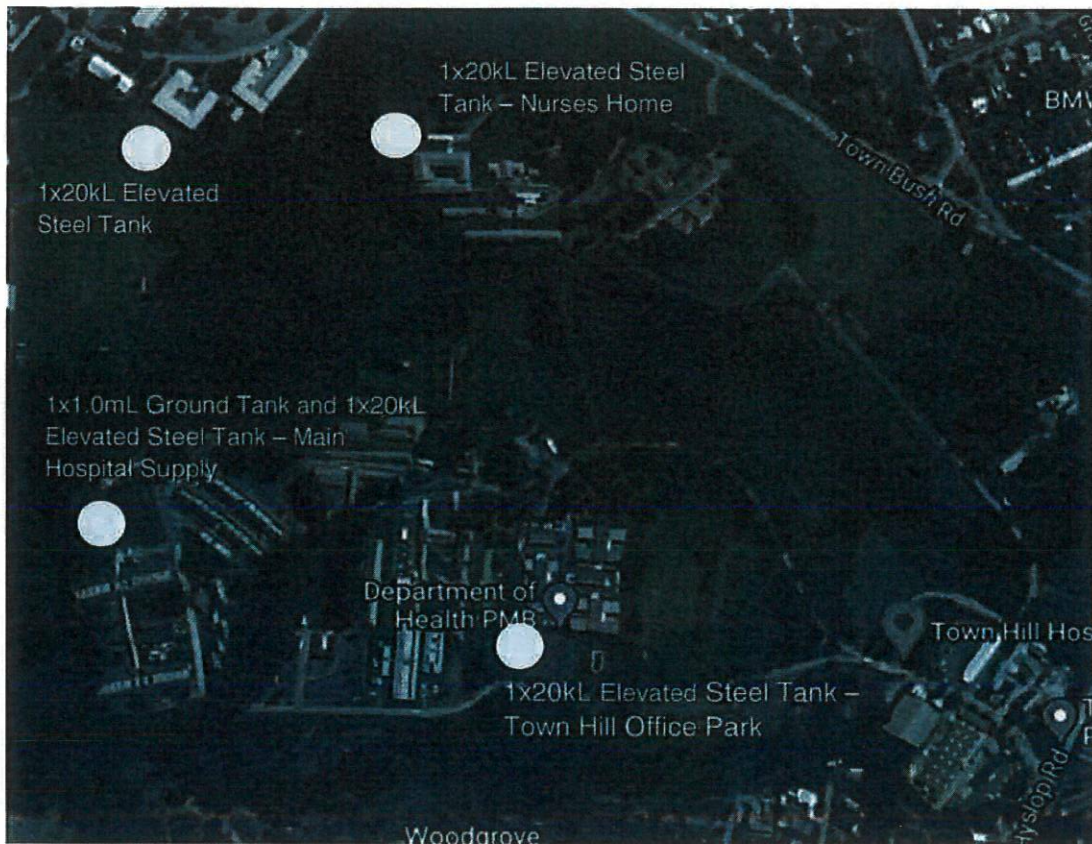


Figure 2: Aerial View Town Hill Hospital showing proposed location of tanks
Source: Google Earth

1.3. The Project Details

Project Name: Installation of a 72-hour emergency water storage system at Town Hill Hospital.

KZN-DOH Project Number: To be confirmed

Project Code: To be confirmed

Project Details / Scope:

- Site clearance or vegetation clearing.
- Conduct geotechnical investigations of the identified site to determine the soil characteristics and decide on the design parameters.
- Domestic ring main maintenance.
- Fire ring main maintenance.
- Connections and metering.
- Construction of 4x20kL elevated steel water storage tanks and a 72-hour 1.0mL ground steel tank in accordance with SANS 10400 and other applicable statutory requirements.
- The tanks must be equipped with the necessary return valves at the inlet and outlet and must have approved water level control mechanism. The level control mechanism could be manual or electronic.
- Provision of a suitable wireless tank telemetry to client specification.
- Full compliance to Occupational, Health and Safety Act regulations.

The hospital comprises of residences, offices, mental wards and support services. The fire risk is moderate to high.

Project Type:	Infrastructure Development - Projects
Budget Programme Number: Programme	8
Sub-programme	8.2 – District Hospital Services
Funding Source	Equitable Share
Construction Cost Estimate	R19.8 million
Budget Programme Name:	Health Facilities Management
Infrastructure Programme Name:	Not Part of Programme
Nature of Investment:	Maintenance
Nature of Investment Sub- status:	Upgrades and Additions
IRM Infrastructure Category:	DoH - Upgrading
IRM Infrastructure Type:	Secondary

1.4. Project Team

1.4.1. KZN Department of Health (Infrastructure Development)

• Project Leader:	Mr M Ngcobo Pr Eng
• Civil/Structural Engineer:	Mr ET Chiro PrEng
• Architect:	Ms A Hesketh
• Quantity Surveyor:	Mr R Potsane PrQS
• Occupational Health & Safety:	Ms S Ngcobo
• Quality Assurance:	Mr ET Chiro PrEng
• Monitoring & Evaluation:	Ms Z Twala
• Health Technology:	N/A

1.4.2 Oversight Team

- Provincial Champion: Mr B G Gcaba (Chief Director Infrastructure Development)
- Provincial Power User: Ms M De Goede (Director: Infrastructure Planning)
- Project Sponsor: Mr B G Gcaba (Chief Director Infrastructure Development)
- Project Control Group: To be confirmed
- Infrastructure Development: To be confirmed
- Project Approver: Mr B G Gcaba (Chief Director Infrastructure Development)
- Project Verifier: Ms M De Goede (Director: Infrastructure Planning)

1.4.3 Department of Health – General

Facility Town Hill Hospital

Mr. N R Hadebe : CEO
Mr M Ntombela : Nursing Manager
Mr S W Zulu : HR Manager
Mr M Zondo : Monitoring and Evaluation Manager
Mr M Makhubu : Systems Manager

Department of Health – District Information

uMgungundlovu District	Name	Contact Details
• District Director	Dr MT Zulu (Acting)	033 8971000
• District Manager	Mr MR Green (Deputy)	033 8971000
• District Engineer		

IT Services: Not Applicable
Security Services: Existing
Infection Prevention Control (IPC): DoH
Waste Management: Not Applicable

Town Hill Hospital Services Rendered:

Clinical Services

- Child and Adolescent Psychiatric Services
- Psychiatry
- Psychology
- Pharmacy
- Occupational Therapy
- Social Work
- Infection Control

Tertiary Services

- First episode psychosis
- Dual diagnosis
- Psycho geriatric
- Neuropsychiatry
- Child and Adolescent unit
- Community liaison and outreach
- HIV and psychiatry
- Northpark psychotherapy unit

1.4.4 Stakeholders

Stake holders include:

- National Department of Health
- Provincial Treasury
- Applicable Municipalities
- Organised Labour
- Local Councillor
- Project Steering Committee
- Special interest groups

1.4.5 Implementing Agent

- Project Coordinator/Leader: Mr M Ngcobo
- Implementing Agent Champion: Mr ET Chiro
- Project Monitor: Mr B Gcaba

- Contractor and Professional Services: Design & Build
 - Civil and Structural Engineer: To be appointed
 - Occupational Health & Safety: To be procured
 - Environmental Consultant: To be procured
 - Civil Engineering Contractor: To be procured
 - Electrical/Mechanical Engineer: To be procured

1.5 Stakeholders Management

RACI Chart ACTIVITY	Stakeholder						
	Natalia Building (Office of the Manager)	DoH Infrastructure Chief Director	DoH Program Delivery Director	DoH Engineering and Maintenance Director	Local Authority	DoH HoD	Unions
Create Charter (Brief)	C	C	C	R	C	A	C
IDMS Stage 3	C	I	R	C	I	A	I
IDMS Stage 4	C	C	R	C	I	A	I
IDMS Stage 5	C	C	R	C	I	A	I
IDMS Stage 6	C	C	R	I	I	A	I
IDMS Stage 7	C	C	R	I	I	A	I
IDMS Stage 8	C	C	R	I	I	A	I
IDMS Stage 9	A	C	R	I	I	A	I

○ R: Responsible A: Accountable C: Consult I: Inform

1.6 Project Background

1.6.1 A Short History

The watermain reticulation in Town Hill Hospital consists of a network of different pipe types depending on the era in which the infrastructure was constructed. The main watermain feed to the hospital in a 200mm diameter uPVC ring main. The old reticulation comprises of aging asbestos cement and steel pipes. The hospital continues to experience issues with water leaks due to burst pipes and other infrastructure failures.

A preliminary investigation has been concluded and the following are findings:

- The existing reservoir has been condemned and is no longer in use.

- The hospital is currently fed directly from the municipal water supply.
- There is no dedicated fire reticulation and the hydrant waterlines are connected to the domestic water lines.
- The water reticulation is now beyond economic repair as there are numerous leaks and frequent pipe bursts
- There are extended times when there is no water at the facility due to frequent repairs.
- Old abandoned pipelines still have water in them and are a source of water leaks.

1.6.2 Problem Statement

The hospital continues to experience watermain issues as a result of burst pipelines and water leaks at valve locations. The absence of as-built records makes it difficult to isolate certain sections of the pipe network in order carry out repair work. Known isolating valves are located along the main 200 diameter watermain feed thereby making these valve locations the only place to effect isolation for sections requiring repair work.

Past repair work has generally taken between 2 to 5 days to complete depending on the nature of the problem. During this time when there is no water the hospital cannot discharge their normal hospital duties effectively. This poses risks to the officials and patients.

The unavailability of backup water system also means that the fire reticulation is also dysfunctional during this time when water has been shut off and repairs are being carried out. This poses extreme risk to the health of hospital community at large.

The Town Hill office park is situated within the Town Hill Hospital premises. The office park houses the provincial Department of Health infrastructure unit, environmental unit and IT. Any disruptions in the supply of water to the hospital directly and equally affects these departmental offices.

1.7 Project Links

No project links have been identified.

1.8 The Site:

The project involves the installation of 4x20kL elevated steel water tanks and 72-hour 1.0 mL ground tank to act as a backup system to the municipal water supply.

- **Restrictions:**

- **Planning**

Works will be executed inside Town Hill Hospital property boundaries and no restrictions anticipated. However all personnel involved in the project will be required to apply for relevant access control authorisation. Further details will be made available to all approved service providers before work commencement.

- **General**

The site can be accessed from different directions via Hyslop Road. During peak hours especially in the afternoon Armitage Road, Town Bush Road and Hyslop Road are known to carry heavy traffic. Nevertheless no major traffic issues are anticipated.

- Land use definition District Hospital
- Heritage components Not Applicable.
- Survey of the site Not Applicable
- Geo-technical information Required in order to ascertain founding conditions
- Traffic impact study Not Applicable
- External circulation

Access to the site can be via either of these routes:

- National Route, N3 Freeway – Take Liberty Mall Off-Ramp into Armitage Road and proceed westward into Hyslop Road.
 - Hyslop Road can also be accessed from the northern suburbs via Old Howick Road or Town Bush Road.
 - From the CBD take Chief Albert Luthuli Street and proceed northward towards the Royal Show Grounds and turn right into Hyslop Road.
- Climatic conditions Pietermaritzburg is situated approximately 631m above sea level.
Average Max Temperature is 21 degrees in February
Average Min Temperature is 10 degrees in July
Rains are from October to March
Average annual wind speeds are between 0 – 10km/hr. No work will be permitted on abnormal windy days where prevailing wind speeds are excessive.

Bulk services

- Sewerage: Contractor to provide own chemical toilets.
- Water: Municipal supply
- Fire Water: Municipal supply
- Electricity: Municipal supply
- Stormwater: On site control and discharge into municipal infrastructure

2 Strategic Background

2.1 Strategic Outcome

To improve health facility planning and infrastructure delivery.

2.2 Strategic Objective

- Strengthen health system effectiveness
- Reduce and manage the burden of disease
- Universal health coverage
- Improved quality of health care

2.3 Project Objective

To eliminate the health risk to patient care by alleviating disruptions to hospital operations due to unavailability of municipal water.

2.4 Project Outcome

To provide a sustainable 72-hour back-up system to potable municipal water supply. This emergency measure will also cater for the fire reticulation requirements.

2.5 Project Success Criteria

To ensure that the project is completed to the satisfaction of the Department of Health:

- Performance – Tank specification and construction processes to ensure peak performance of back-up system during its entire service life.
- Water interruptions have less impact on hospital operations – Availability of 72-hour storage to ensure seamless transition when there is intermittent disruptions in the municipal water supply. The emergency water supply reticulation will be integrated into the main water reticulation to act as a backup water system.
- Safety - No incidents or injuries reported during and post construction.
- End user satisfaction – no complains on infrastructure conditions and less fault log.
- Time – project delivered within stipulated time period.
- Quality and compliance – project delivered as per client specifications and applicable laws.

2.6 Statutory Requirements

2.6.1 Legislation

Legislation: Minimum applicable legislation (latest version) include:

- o National Building Regulations SANS 10400
- o Kwazulu-Natal Planning & Development Act, 2008 (Act No. 06 of 2008) (PDA)
- o Occupational Health & Safety Act No. 85 of 1993
- o Water and Sewage Municipal Systems Act: Municipal by-laws
- o National Environmental Management Act 107 of 1998
- o National Water Act 36 of 1998
- o General Conditions of Contract 2010 2nd Edition
- o PFMA
- o GIAMA
- o All applicable Acts and Regulations for the various Professional Services Providers (Disciplines)

2.6.2 Policies:

Applicable KZN Health Policies

- o HIAC Policy
- o Maintenance Policy
- o Policy Document for the Design of Structural Installations (to be used strictly as a Design Guide Only)
- o Other - All applicable policies of KZN Department of Health

2.6.3 Statutory Permissions Required

- o No land acquisition required.
- o No municipal approvals required. Inform interested municipal structures.
- o Water use licence may be required – Refer to applicable sections in the National Water Act.

2.6.4 Norms and Standards: Minimum applicable Norms and Standards

- i. IUSS – Environmental and Sustainability
- ii. SANS 10400
- iii. DoPW Civil Engineering Specifications
- iv. Red Book
- v. IDMS and FIDPM
- vi. ECSA, SAICE, CIDB
- vii. SANS10251/2

3 Technical Brief

3.1 Situational Analysis

The deteriorating state of the old watermains is of great concern. The old asbestos cement, earthenware and steel watermains are in the state of disrepair and require complete replacement. There are no as-built records available and without this crucial information planning for any repair work is not without challenges. In order to identify the source of water leaks one needs to excavate by hand to prove and confirm the location of the pipe. This exercise is time consuming and has a negative impact on the time required to execute the repairs and bring back hospital operations to normality.

3.2 Scope of the Project

The envisaged scope of work is summarized below:

- Site clearance or vegetation clearance.
- Construction of 4x20kl elevated steel water storage tanks in accordance with SANS 10400 and other applicable statutory requirements.
- Construction of 1.0 ML two-compartment tank for domestic and fire reticulation in accordance with applicable statutory requirements.
- The tanks must be equipped with the necessary return valves at both inlet and outlet and must have approved water level control mechanism. The level control mechanism could be manual or electronic.
- Provision of wireless tank telemetry as approved by DoH.
- Technical Requirements
 - The size of the tank must be calculated to suit the supply to the institution.
 - Non return valve at inlet and outlet.
 - Emergency water reticulation to be integrated into main reticulation.
 - The elevated water tank needs to generate a water pressure of 4 bars in order to operate our flush masters.
 - All work must be signed off by registered professionals.

3.3 Brief Conditional Assessment

The old watermain reticulation is in the state of disrepair and require replacement. Some isolating valves are heavily rusted and are leaking owing to the lack of scheduled valve maintenance. It was also found that in some instances normal construction processes were probably never followed during the upgrading of the reticulation e.g. isolating valves were buried instead of constructing a proper valve chamber.

Until such time when all the old reticulation has been replaced the hospital will continue to experience interruptions in the water supply when attending to existing infrastructure failures. The installation of the water storage facility will ensure that the hospital continues to offer uninterrupted health care services.



Fig 3: Typical water leaks
Pictures taken in May 2021

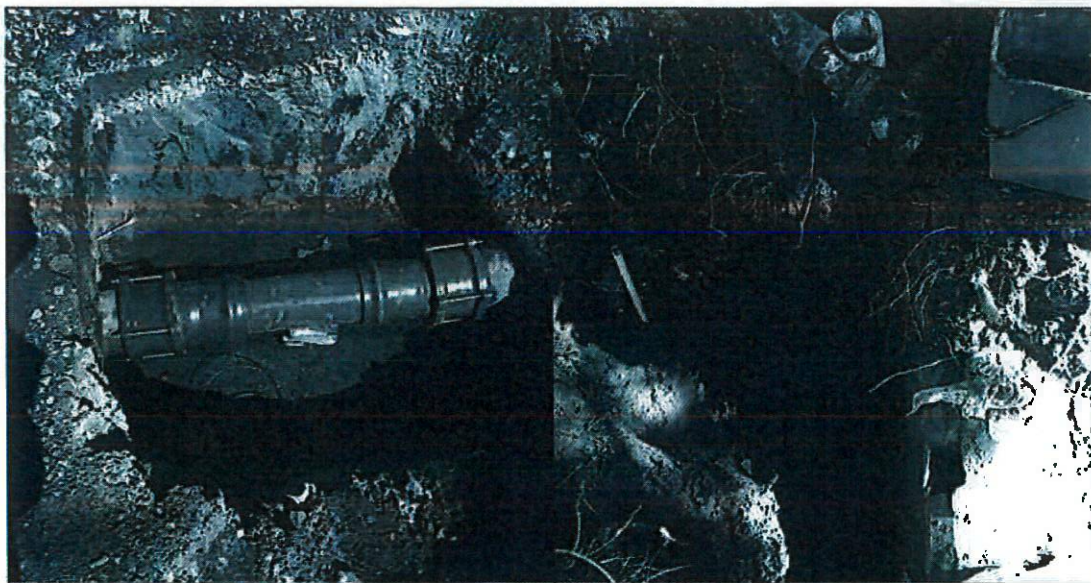


Figure 4: Picture showing repairs on asbestos cement pipe. Rusted (leaking) valve on the RHS.
Pictures taken in May 2021

3.4 The Proposed Execution Plan

3.4.1 Procurement and Contracting Strategy:

The proposed strategy is thus:

- i. Design By Employer
- ii. Normal SCM processes for the appointment of a Contractor using the open tender processes.

3.4.2 Pricing Strategy

A Bill of Quantities will be issued to prospective Tenderers for pricing purposes. During construction actual quantities will be subject to re-measurement for processing interim payments and final account.

Any increase in the scope of Works in excess of the quantities allowed for in the provisional Bill of Quantities will be paid for using normal SCM processes for approved variation orders.

3.4.3 Tender Evaluation

The 80/20 preference point system will be applicable to this project.

The evaluation of bids will be conducted in three (3) phases:

PHASE 1: Responsiveness

- Correctness of bid document
- Compliance with SCM regulations (registration with Central Suppliers Database (CSD), Tax compliance, other prescribed requirements and submission of all documentation as specified in the tender document.

PHASE 2: Quality Evaluation

- A certain minimum qualifying evaluation score must be met as prescribed in the tender document.

PHASE 3: Price

- Realistic (market related) and competitive price.

3.4.4 CIDB Registration

The Contractor must be registered with CIDB in their respective field of expertise.

3.4.5 Implementing Agent

Department of Health

3.4.6 Contract Period

Proposed contract period is 6 months.

3.4.7 Phasing and Decanting

Phasing

This is new Works on a non-restricted area hence no phased construction anticipated.

Decanting

Not applicable. Allow proper planning during the integration of emergency water reticulation into the main supply.

3.4.8 Contingencies and Redundancies

None

3.4.9 Standard Specifications for Construction

Standard method of construction, measurement and payment is as per SANS 1200. EPWP specifications to apply.

3.4.10 Branding

EPWP branding as specified.

3.4.11 EPWP Requirements

EPWP Minimum Requirement	Project Values in Rand and minimum guidelines					
	Up To 5 00 000	Between 500 000 up to 2 Million	Between 2 Million up to 10 Million	Between 10 Million up to 30 Million	Between 30 Million up to R 99 Million	From 100 Million and above
Reporting	All required	All required	All required	All required	All required	All required
Local Area	10 km radius	10 km radius	Local Municipality 60% @ 10 km radius	District Municipality 60% Local Municipality	KZN Province 80% District 60% Local Municipality	South Africa 80% KZN 60% District 40% Local Municipality
Branding	Not Required	Site only	Site and Uniform	Site ,Uniform and tender documentation	Site ,Uniform and tender documentation	Site ,Uniform and tender documentation
Recruitment	Managed via Councilor and Hospital Board/Clinic Committee	Managed via Councilor and Hospital Board/Clinic Committee	According to DOPW Recruitment guideline document	According to DOPW Recruitment guideline document	According to DOPW Recruitment guideline document	According to DOPW Recruitment guideline document
PSC	Not Required	Hospital Board /Clinic Committee	Hospital board /Clinic Committee	Full PSC,CIDB Guidelines to be followed	Full PSC,CIDB Guidelines to be followed	Full PSC,CIDB Guidelines to be followed
CLO	Not Required	Required	Required	Required	Required	Required
Tender Specification	Not Required	Required	Required	Required	Required	Required

Reporting Requirements:

- o Employment Contracts
- o Copies of ID documents
- o Half cut photographs of employees
- o Proof of daily attendance
- o Proof of wage payments

4 Project / Programme Management and Cost Control

4.1 Project Management

IDMS and FIPDM guidelines and stage gates apply.

4.2 IDMS guidelines

- Stage 0 **PROJECT INITIATIONS:** Project was identified in May 2021
- Stage 3 **PREFEASIBILITY:** The brief is deemed to satisfy Stage 3
- Stage 4 **FEASIBILITY:** Concept and viability report
- Stage 5 **DESIGN DEVELOPMENT:** Development of the design and execution plan
- Stage 6 **DESIGN DOCUMENTATION:**

Deliverable Design documents complete

- o Sub-deliverable 1 Complete working drawing
- o Sub-deliverable 2 Specifications/Bills of Quantities complete

Stage 7 WORKS

Deliverable Works completion certified

- o Sub-deliverable 1 Signed contractual document received
- o Sub-deliverable 2 Site hand over certified
- o Sub-deliverable 3 Construction technical certifications
- o Sub-deliverable 4 Practical completion certified
- o Sub-deliverable 5 Retention
- o Sub-deliverable 6 Works completion certified

Stage 8 HANDOVER

- o Deliverable Liability acceptance by End-User
- o Sub-deliverable 1 Defects liability
- o Sub-deliverable 2 Training concluded
- o Sub-deliverable 3 As-built/Manuals received
- o Sub-deliverable 4 Commissioning completed
- o Sub-deliverable 5 Facility opened

Stage 9 CLOSE OUT

- o Deliverable: Defects certificates or certificates of final completion issued, Final amount due to the contractor in terms of the contract is certified. Close out report is accepted.
- o Sub-deliverable 1 Final completion certificate issued
- o Sub-deliverable 2 Final accounts signed
- o Sub-deliverable 3 Final payments certified
- o Sub-deliverable 4 Report complete and submitted for signature
- o Sub-deliverable 5 Report approved and signed
- o Sub-deliverable 6 Asset verified and captured

4.3 Professional Services Required

IDMS Stages	PSP Deliverables as per Standard Service Work Stages prescribed by their respective Councils
Gate 0: Project Initiation	Not applicable
Gate 1: U-AMP	Not applicable
Gate 2: IPMP / IPIP / AIP	Not applicable
Gate 3: Project Brief	Not applicable
Gate 4: Concept & Feasibility Report	Stage 1: Inception Stage 2: Concept & Viability Report (Tender Stage)
Gate 5: Design Development	Stage 3: Design Development Report
Gate 6: Construction Documentation	Stage 4: Documentation & Procurement
Gate 7: Construction	Stage 5: Construction
Gate 8: Handover	Stage 5: Construction
Gate 9: Close Out	Stage 6: Project Close Out
NB: Consultants will be required to make presentations at the Health Infrastructure Approval Committee (HIAC) for approval of their deliverables at the end of each IDMS stage.	

4.4 Project Management Plan / Resource Management

4.4.1 Project Management Plan

The following Project Management plan is a guideline.

Table 1: Proposed Project Plan/Resources

ITEM	ELEMENTS
Needs Assessment/Analysis:	Town Hill Hospital is a 425 bed facility offering psychiatric services and other important health care services. The project will be implemented by the Department of Health. Contractor and PSP senior team leaders to be registered persons in their field of expertise.
Implementing Agent Brief:	The Implementing Agent is KZN DoH
PSP Brief	<ul style="list-style-type: none"> • To construct elevated water storage tank • The water level must be manual and electronic.
PSP's: (Required only if DoH does not have internal capacity)	<ol style="list-style-type: none"> 1 Civil/Structural Engineer 2 Electrical Engineer/Mechanical Engineer 3 Quantity Surveyor 4 Environmental Science consultant 5 Construction Health & Safety Officer
Contractor CIDB Grading	6 CIDB Grade 6GB
Evaluation and Engagement:	7 HIAC and DoH SCM Committees

4.4.2 Project Risk Plan

Table 2: Risk Log

Risk	Owner	Probability (low/med/high)	Consequence (L/M/H)	Actions
Work stoppage by interest groups	Project Leader	Low	Low	Procurement will give advantage to local contractors and sub-contractors.
Incidents and Accidents. Elevated Water Storage Tank system.	Project Leader & Safety Agent/Officer	High	High	Approved Health and Safety Plan must allow for fall arrest equipment, fall prevention equipment, personal protective equipment, working at height dropped object equipment plan and emergency evacuation plan. Only medically fit work-persons will be allowed access to construction site. Medical certificates are mandatory. No work allowed under abnormal windy conditions.
Power Outages	Project Leader and Contractor	Low	Low	Contractor will provide his/her potable power generators
Covid-19 related project delays	Project Leader and Contractor	High	High	Observe all Covid-19 protocols – sanitise, social distance, wear a mask, wash hands regularly.
Dust Particles	Project Leader and Contractor	Medium	Medium	Provide dust screens at strategic locations to prevent dust particles from entering hospital buildings. Avoid working in abnormal windy conditions.
Termination of Contract and Project Cancellation	DoH SCM	High	High	Appoint Contractor with sound financial and technical resources. Proposed CIDB contractor grading is 6GB.

4.4.3 Occupational Health and Safety Baseline plan

- i. The project will comply with the requirements of the Occupational Health & Safety Act 85 of 1993 and its regulations.
- ii. A Construction Work Permit will be required.
 - The project may exceed 365 days and will involve more than 3600 person's days of construction work.
 - The tender limit is grade 6 of the Construction Industry Development Board (CIDB) grading.
- iii. The project shall require a Health & Safety Agent.
- iv. Health & Safety constraints to be included in the project risk log at stage 4

4.5 Communication Plan

The following communication plan is proposed.

- **Stakeholder engagement meetings (Minutes)**
(DoH Infrastructure, Facility Management, Business Forums)
- **Planning meetings (Minutes)**
(DoH Health and Safety, Infrastructure Planning, Infrastructure Program Delivery and Infrastructure Engineering and Maintenance)
- **Technical and Contractual update meetings (frequency as needed)**
- **1 x Monthly Report back meetings (Minutes)**
- **2 x Monthly Site meetings (Minutes)**

Communication Methodologies

Communication will be done through the following methods:

- Meetings with minutes
- Minutes
- Telecommunication
- E-mails
- Reports
- Letters
- Feedback information
- Drawings

Communication Delivery

Communication will be delivered through:

- Telecommunication
- E-mails
- Hand delivered/Postal Services/Courier Services
- Internal registry services
- Log Books
- Issue Sheets

Personnel

Communication will be between KZN-DOH Infrastructure Development and:

- KZN-DOH Head Office sections
- KZN-DOH District
- Town Hill Hospital
- Contractor
- Other interested parties.

4.6 Project Milestones

Table 3: MILESTONES and TASKS

Milestone	Anticipated Completion Date	% Project Complete
PROJECT INITIATION DATE	01/02/2021	0
STAGE 1B: BRIEF	31/08/2021	5%
STAGE 2: FEASIBILITY		
STAGE 2,3&4: FEASIBILITY, DESIGN & DOCUMENTATION	30/09/2021	35%
TENDER	30/10/2022	40%
CONSTRUCTION	28/02/2023	80%
Construction 0 - 25%	31/03/2022	50%
Construction 26 - 50%	30/06/2022	60%
Construction 51 - 75%	30/11/2022	70%
Construction 76 - 100%	28/02/2023	80%
PRACTICAL COMPLETION	28/02/2023	85%
HANDED OVER	28/02/2023	90%
WORKS COMPLETION	31/03/2023	90%
FINAL COMPLETION	31/03/2023	95%
CLOSE OUT	31/06/2023	100%

4.7 Project Cost Breakdown

The project cost is made up of the following elements:

Building Cost (incl. VAT)		
Funding source	2021/2022 – Equitable Share	
Budgetary Item	Amount	Explanatory Notes
Current Estimated Building Cost	R 16 500 000	30/04/2021 DoH Estimate
Pre-tender escalation	R 825 000	5%
Post-tender escalation	R 825 000	5%
Estimated Fees	R N/A	
Contingency	R 1 650 000	10% provision
Estimated Cost (incl. VAT)	R 19 800 000	

There is no budget allocation for this project in the 2021/2022 AIP.

Monthly and Annual Cash Flows:

Table 4: Estimated Monthly Cash-flow (AIP)

Estimated Cash-flow for 2021/2022 year (Total Construction cost + Fees, incl. VAT)											
Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
0	0	0	0	0	0	0	0	0	0	1,700,000	2,000,000

Table 5: Projected Annual Cash-flow (U-AMP)

MTEF and beyond	Fees	Construction	Total
Yr. 2021/2022	N/A	R3,700,000.00	R3,700,000.00
Yr. 2022/2023	N/A	R16,100,000.00	R16,100,000.00
TOTAL	N/A	R19,800,000.00	R19,800,000.00

- o Expanded Public Works Programme

The project incorporates Expanded Public Works Program (EPWP) guidelines aimed at alleviating and reducing unemployment.

Requirements for this project are outlined below:

- o Employment Requirements

It is envisaged that the project will generate local employment and skills development

- o Definition of the local area

Local area means within the ward that the hospital is located.

- o Appointment of the Project Steering Committee

The steering committee would be formed out of the following

- Representative of Facility Management
- Representative of the labour unions
- Representatives of the community
- Representatives of the Construction Business Forums

- o Appointment of the Project Liaison Officer (PLO)

To be appointed by the Steering committee and paid for through the contract

- o Branding Requirements (PPE and Site branding)
EPWP

- o Determination of the Labour Rate
Steering committee and labour unions

4.8 Commissioning

The commissioning process



Figure 1: Key elements in the commission process

4.9 Procurement

Procurement Strategy:

Design by Employer

Contractor's Experience and Competency

The Contractor's project team should be made up of the following disciplines possessing adequate experience in the specific field:

Discipline	Experience / Special Requirements
Civil/Structural Engineer	Registered PrEng/PrTechEng, CV demonstrating 5 years post qualification experience in civil/structural design environment
Contracts Manager	NDip in Civil Engineering with experience in the installation of water storage facilities.
Foreman	Relevant experience necessary

4.10 Works

The Strategic Arrangements contained in the IPMP are as follows:

Delivery Management Strategy for Works			Contracting Arrangements for Works			Procurement Arrangements for Works		
Delivery Mode	Implementer	Estimated Project Control Budget (R.m)	Contracting strategy	Pricing strategy	Form of Contract	Procurement Procedure	Estimated Bid/Tender Award Date	Comments / Current Stage
Individual Project	DoH	19,800,000	Design by Employer	Provisional BOQ	GCC 2010 2 nd Edition	Open Tender (DoH SCM)	May 2022	Identified/ Stage 1B

4.11 Updating and Revising the Delivery Management Strategy

Factors emerging during the development of a project may lead to a revision of the Procurement Strategy that was set out in the IPMP.

4.12 Appointment of External Implementing Agent

Not Applicable

4.13 Roles and Responsibilities of the Department of Health

The roles and responsibilities are highlighted below:

- Effective management and co-ordination of all stages of the project
- Effective management and co-ordination to al legislative requirements
- Quality control and compliance.
- Procurement preparation processes in terms of the PFMA, FIPDM and Treasury Regulations.
- Contract and project management
- Effective Financial management.
- Effective Time Management
- Manage completion processes and retention periods.
- Manage timeous and complete Close-out of Project including as-built documentation, manuals compliance certificates and related documentation.
- Manage all required reporting, documentation and archiving of documents

5 Contact Numbers

Stakeholders

Department of Health:	Infrastructure Development
Project Leader	Mr MR Ngcobo
Tel	033-940-2539
Mobile	076 634 6338
Email	Musa.Ngcobo@kznhealth.gov.za
Department of Health:	Infrastructure Development
Chief Civil Engineer	Mr ET Chiro
Tel	033-940-2400
Mobile	084 219 7889
Email	Edward.Chiro@kznhealth.gov.za
Department of Health:	Engineering and Maintenance
Contact Person	Mr ST Mhlongo
Tel	033-940-2400
Mobile	063 69405210
Email	Sibisiso.Thandanani.Mhlongo@kznhealth.gov.za
Department of Health:	Programme Delivery
Contact Person	Mrs G Masondo (Director Programme Delivery)
Tel	033 940 2400
Mobile	078 089 5556
Email	Gugu.Masondo@kznhealth.gov.za
Infrastructure Development:	Planning
Contact Person	Ms A Hesketh (Chief Architect)
Tel	033 940 2614
Mobile	082 416 7396
Email	Angela.Hesketh@kznhealth.gov.za
Facility:	Town Hill Hospital
Telephone:	+27 (0) 33 341 5600
Fax:	+27 (0) 33 345 5720
Postal Address:	PO Box 400, Pietermaritzburg 3200
GPS Co-ordinates:	30.366134, -29.590644

6 Signatures

Signatories

Name: Mr NR Hadebe
Designation: Town Hill Hospital CEO
Date: 20/08/2021
Signature: R. Hadebe

Name: _____
Designation: _____
Date: _____
Signature: _____

Name: _____
Designation: _____
Date: _____
Signature: _____

**KWAZULU-NATAL PROVINCE**HEALTH
REPUBLIC OF SOUTH AFRICAKWAZULU - NATAL
DEPARTMENT OF HEALTH
INFRASTRUCTURE DEVELOPMENT

31 MAR 2022

CHIEF DIRECTORATE

Physical Address: 35 Hyslop Road; Town hill Office Park, Pietermaritzburg, 3201
Postal Address: Private Bag X 9051
Tel: 033 940 2539 Email: Musa.Ngcobo@kznhealth.gov.za
www.kznhealth.gov.za

INFRASTRUCTURE DEVELOPMENT

INTERNAL MEMORANDUM

Date: 25 March 2022	File No:
TO: MS. M. DE GOEDE DIRECTOR: INFRASTRUCTURE PLANNING	FROM: MR. M. NGCOBO CIVIL ENGINEER ENGINEERING AND TECHNICAL SERVICES
SUBJECT: REQUEST FOR APPROVAL OF ADDENDUM TO THE APPROVED PROJECT BRIEF FOR THE INSTALLATION OF 72-HOUR WATER STORAGE SYSTEM AT TOWNHILL HOSPITAL	

1. PURPOSE

- To request HIAC Chairperson and Director: Planning to note and approve the amendments to the approved project brief for the installation of 72-hour water storage system at Townhill Hospital.
- To further request HIAC Chairperson and Director: Planning to grant approval for the incorporation of the replacement of sewers project into the upgrading of the water reticulation system at Townhill Hospital.

2. BACKGROUND

Townhill Hospital is a Specialised Psychiatric Hospital situated in the suburb of Townhill in Pietermaritzburg under the uMgungundlovu District. The hospital offers District Services to Pietermaritzburg communities and surrounding areas and has a bed capacity of 425. The hospital was built circa 1880 and over the years the infrastructure at this facility has been deteriorating due to age and in particular the potable water and sewer reticulation systems.

In recent times the Infrastructure Development Unit has received numerous fault logs from the facility regarding water and sewer reticulation systems. In 2019 the Infrastructure Development Unit undertook a condition assessment of the existing water and sewer reticulation systems. It was found that certain sections of both the water and sewer reticulation systems comprises of aging asbestos cement, vitrified clay pipes as well as steel pipes.

Due to intermittent municipal water supply issues at Townhill Hospital the need to upgrade the water reticulation system as well as the provision of a 72-hour storage system was identified. In 2021 a project brief was prepared in order to address the issues pertaining to potable water and fire reticulation systems at this facility as well as the need to provide municipal water back up system in the form of 72-hour storage system.

The project brief for the installation of 72-hour water storage system and upgrading of water reticulation system and at Townhill Hospital was presented to HIAC (Health Infrastructure Approval Committee) on 20 August 2021 and approval was granted on 26 October 2021. It was recommended in the project brief that the project be implemented by DOH using the Design by Employer procurement strategy.

Part of the facility's sewer reticulation system was upgraded in 2011 (Phase 1) and the project was implemented by the Department of Public Works. The section of the sewer line which was not upgraded as part of Phase 1 continues to give problems both in terms of system failures as well as capacity issues. In 2019 the need to proceed with Phase 2 of the sewer upgrading was identified and Phase 2 of the replacement of sewers is currently at an Identified stage.

3. WATERMAINS AND SEWER PROJECT DETAILS

Table 1: Project Details

Item Description (PMIS Details)	PROJECT 1 Replacement of sewers – Phase 2	PROJECT 2 Installation of 72-hour Water Storage System at Town
1. Project Code	31009211	31011714
2. Milestone Reached	Identified	Pre-feasibility
3. FIDPM Stage	Stage 1A: Project Initiation	Stage 2: Concept/Feasibility
4. Project estimated start date	02-02-2019	01-04-2021
5. Project estimated end date	31-03-2025	31-03-2026
6. Budget	R3 000 000	R19 800 000
7. % Complete	3%	5%

4. PROJECT OBJECTIVE

In order to provide quality care, healthcare facilities need to have a safe and accessible water supply; clean and safe sanitation facilities; hand hygiene facilities at points of care and at toilets; and appropriate waste disposal systems. The consistent supply of potable water and reliable sanitation systems in hospitals helps to prevent outbreak of deadly diseases which can affect patients and healthcare workers.

Good water and sanitation infrastructure is also essential to allow healthcare workers to perform appropriate infection prevention and control (IPC) practices and at the same time improving the welfare and dignity of patients.

Whilst the original brief only dealt with the water reticulation issues within the hospital, the need to urgently deal with the sanitation issues is equally important as well.

On completion of the project the water and sanitation issues at Townhill Hospital would have been reduced to acceptable levels thereby improving the welfare of patients.

5. REVISED SCOPE OF WORKS

The installation of 72-hour water storage system and the upgrading of watermains will now include Phase 2 of the replacement of old sewers. The approximate position of the existing sewers is shown in the figure below:-

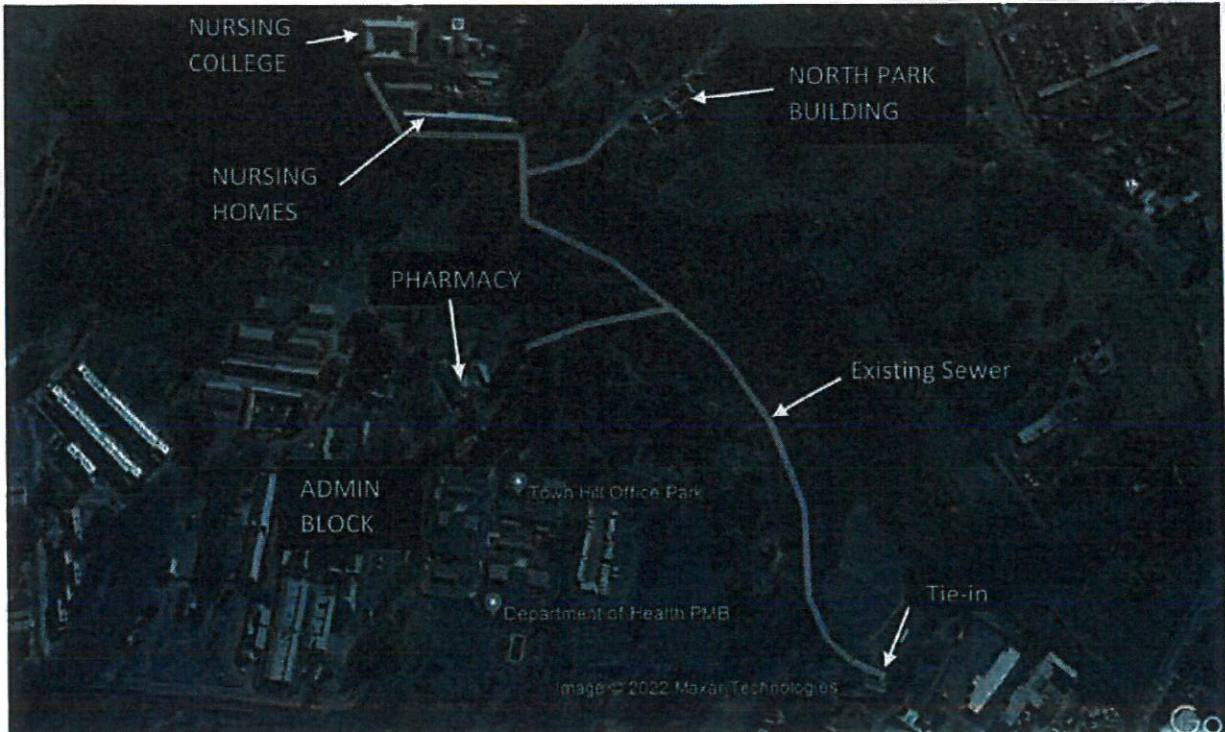


Figure 1: Approximate position of existing sewer to be upgraded or replaced (Phase 2)

6. COMBINED PROJECT NAME

It is recommended that the Project Name for the two combined projects be called:-

“UPGRADING OF WATER AND SEWER RETICULATION SYSTEMS AT TOWNHILL HOSPITAL”

This submission will also be used to seek approval for the relevant changes to be made in the DOH project management information system.

7. MILESTONE IMPLICATIONS

The water and sewer reticulation upgrades are currently planned to be completed in 2025 and 2026 respectively. The projects are similar in nature and their implementation plans can be easily aligned thereby ensuring overall improved project efficiency. The planned completion date of March 2026 will be adopted.

New project milestones and tasks are shown in Table 2 below:

Table 2: PROJECT MILESTONES and TASKS

Milestone	Anticipated Completion Date	% Project Complete
PROJECT INITIATION DATE	2017/2021	0%
STAGE 1B: BRIEF	31/03/2022	5%
APPOINTMENT OF CONSULTANTS	30/06/2022	10%
STAGE 2: FEASIBILITY	31/03/2023	15%
STAGE 3: DESIGN DEVELOPMENT	15/12/2023	35%
STAGE 4: DESIGN DOCUMENTATION	28/06/2024	40%
STAGE 5: CONSTRUCTION		
Construction 0 - 25%	29/11/2024	50%
Construction 26 - 50%	31/03/2025	60%
Construction 51 - 75%	31/07/2025	70%
Construction 76 - 100%	30/09/2025	80%
PRACTICAL COMPLETION	30/09/2025	85%
HANDED OVER	30/10/2025	90%
RETENTION	31/12/2025	90%
FINAL COMPLETION	31/01/2026	95%
CLOSE OUT	31/03/2026	100%

8. CONTRACTING AND PROCUREMENT PROCESS

8.1 Appointment of Consultants

An external consultant will be procured to undertake FIDPM stages 2 to 7 i.e. concept design, detail design, tender documentation, site supervision, retention and close out.

The main scope of works for the consultants will comprise of the following, but not limited to:-

- i) Undertaking topographical surveys, ground penetrating radar surveys (where applicable) and preparation of services plans.
- ii) Undertaking geotechnical investigations for foundations for the water tanks.
- iii) Undertaking designs for the upgrading of water, fire and sewer reticulation systems.
- iv) Construction monitoring and contract administration.
- v) Preparation of as-built drawings and close out.

The consultants will also be required to investigate, plan and design temporary water storage structures to be constructed at the following places:-

- Administration Block.
- Townhill Office Park.
- Nurses Homes and Nursing Campus
- Patient Wards.

The design and installation of the temporary water storage structures will be expedited in order to deal with the dire situation of water shortages at the hospital. It is anticipated that for the temporary water storage structures the process to appoint the Contractor will commence soon after departmental committee approvals.

8.2 Consultants Experience and Competency

The Consultants project team should be made up of the following disciplines, either in-house or outsourced, possessing adequate experience in the specific field and must have at least 3 years experience post professional registration:-

- Registered Professional Quantity Surveyor
- Registered Professional Structural Engineer/Technologist
- Registered Professional Civil Engineer/Technologist
- Registered Professional Electrical Engineer/Technologist
- Registered Professional Mechanical Engineer/Technologist
- Registered Professional Construction Health and Safety Agent with a minimum of 1 year post professional registration experience.

8.3 Project Cost Breakdown and Procurement Strategy

8.3.1 Project Cost Breakdown

The project cost breakdown is made up of the following elements:

Item No.	Element Description	Estimated Cost (Rands)
1	Upgrading of watermain reticulation system	19 800 000.00
2	Upgrading of sewer reticulation system (Phase 2)	2 286 700.00
3	Professional Fees	2 252 580.00
	TOTAL (Including VAT)	R 24 339 280.00

The estimated construction costs shown above include 10% contingencies.

8.3.2 Procurement Strategy for Professional Services

The Contracting Arrangements required for the IPMP are as follows:

Contracting Arrangements for Professional Services				
Professional services needed	Procurement Strategy	Contracting strategy	Pricing Strategy	Form of Contract
Full Service	Tender/Open procedure	Design by Employer	Gazetted Fee	CIDB Consultants appointment

8.3.3 Procurement Strategy For Works

The Strategic Arrangements contained in the IPMP are as follows:

Delivery Management Strategy for Works			Contracting Arrangements for Works			Procurement Arrangements for Works		
Delivery Mode	Implementer	Estimated Project Control Budget (R.m)	Contracting strategy	Pricing strategy	Form of Contract	Procurement Procedure	Estimated Bid/Tender Award Date	Comments / Current Stage
Individual Project	DoH	24,339,280.00	Design by Employer	Bill of Quantities	GCC 2010 2 nd Edition	Open Tender (DoH SCM)	June 2024	Identified/ Stage 1B

9. FINANCIAL IMPLICATIONS

The initial approved estimate for the installation of the 72-hour water storage system and upgrading of watermains as indicated in the approved brief is R19 800 000.00. This amount did not include professional fees because the original plan was to undertake the designs using DOH resources. Due to the nature of the Works as well as the design risks associated with this project it has now been decided that professional service providers be appointed to undertake necessary investigations, designs and construction monitoring.

The cost of upgrading of the sewers (Phase 2) is estimated at R2 286 700.00 and this component of the Works will now be incorporated into the watermains upgrade project.

An additional funding of R2 252 580.00 must be allocated to the project for the appointment of professional service providers as this amount was not included in the original approved project brief.

See Annexures A and B for estimated cost breakdown for sewer upgrades and professional fees respectively.

10. RECOMMENDATIONS

It is recommended that the HIAC Chairperson and Director: Planning notes and approves the amendments in the approved project brief for the installation of 72-hour water storage system at Townhill Hospital.

Kind regards,



MR. M NGCOBO
CIVIL ENGINEER:
ENGINEERING AND TECHNICAL SERVICES
INFRASTRUCTURE DEVELOPMENT UNIT

25/03/2022
DATE

10. RECOMMENDATIONS

It is recommended that the HIAC Chairperson and Director: Planning notes and approves the amendments in the approved project brief for the installation of 72-hour water storage system at Townhill Hospital.

SUPPORTED/ NOT-SUPPORTED

COMMENT _____



MR. ETCHIRO
CHIEF CIVIL ENGINEER:
ENGINEERING AND TECHNICAL SERVICES
INFRASTRUCTURE DEVELOPMENT UNIT

25/3/2022
DATE

SUPPORTED/ NOT-SUPPORTED

COMMENT _____



MR. ST MHLONGO
DIRECTOR:
ENGINEERING AND TECHNICAL SERVICES
INFRASTRUCTURE DEVELOPMENT UNIT

DATE

RECOMMENDED/ NOT RECOMMENDED

COMMENT _____



MS. M DE GOEDE
CHAIRPERSON:
HEALTH INFRASTRUCTURE APPROVAL COMMITTEE

30.03.2022
DATE

APPROVED/ NOT APPROVED

COMMENT _____



MR B GCABA
CHIEF DIRECTOR:
INFRASTRUCTURE DEVELOPMENT UNIT

31/3/2022
DATE

Annexure A

Cost Estimate for the Upgrading of Sewers

TOWNHILL HOSPITAL - UPGRADING OF SEWERS (PHASE 2)
COST ESTIMATE FOR THE WORKS
ANNEXURE A

Item No	Description	Unit	Quantity	Rate	Amount
	SEWER RETICULATION				
	Excavation in earth not exceeding 1.5m deep				
1	Trenches, Holes, etc	m3	1575	80	126000
	Excavation in earth not exceeding 2m deep				
2	Trenches, Holes, etc	m3	900	110	99000
	Extra over trench and hole excavations in earth for excavation in				
3	Soft rock	m3	745	30	22350
4	Hard rock	m3	380	120	45600
	Extra over all excavations for carting away				
5	Extra over all excavations for carting away surplus material from excavations and/or stockpile on site to a dumping site to be located by the contractor	m3	400	55	22000
	Risk of collapse of excavations				
6	Sides of trench and hole excavations not exceeding 1.5m deep	m2	675	15	10125
	Keeping excavations free of water				
7	Keeping excavations free of water	Item	1	3000	3000
	Earth filling obtained from the excavations and/or prescribed stockpiles on site including compaction to 93%Mod AASHTO density				
8	Backfilling behind walls, trenches, etc	m3	1500	160	240000
	Beddings				
	Imported from commercial sources				
9	Selected granular material	m3	210	150	31500
10	Selected fill material	m3	490	120	58800
	SEWER PIPELINES				
	UPvc Pipes				
	Supply, lay, join bed maincore uPVC pipes, 400 Kpa hoop stiffness heavy duty, to SABS 1601-1994 sewer pipes of the following diameter in main lines				
11	200 mm diameter pipes	m	1500	650	975000
	Extra over sewer pipes for special fittings				0
12	45 deg 200mm dia PVC access bend	No	10	80	800
13	90 deg 200mm dia PVC access bend	No	10	80	800
14	45 deg 200mm dia PVC access junction	No	15	80	1200
15	200mm single socket	No	5	65	325
16	200mm single socket	No	5	65	325

Item No	Description	Unit	Quantity	Rate	Amount
	MANHOLES				
	Concrete ring manholes				
	Supply and install pre-cast concrete manholes manhole bases and rings including the pre-cast heavy duty concrete manhole cover slabs and frames, step irons cast into concrete rings at 300mm staggered intervals including all necessary excavations, backfill in 150mm layers compacted to 90% Mod, AASHTO density, the connection of the main sewer pipe to the manhole and the water tight sealing of the structure				
	1000 Internal diameter				
17	Depth 0.0m up to 1.0m	No	8	3000	24000
18	Depth 1.0m up to 2.0m	No	12	3500	42000
19	Depth 2.0m up to 3.0m	No	5	4000	20000
20	Depth 3.0m up to 4.0m	No			
21	Extra-over pre-cast manhole for type 2A heavy duty manhole covers and frames	No	25	3000	75000
22	Rodding eye complete as typical detail, including cover frame and lid, 3% soilcrete surround, 2 x 22.5 deg bend, 160mm dia pipe, end cap, excavation and backfill and trimming complete as per typical detail	No	12	2000	24000
23	Connecting into existing manhole and make good	No	2	3500	7000
24	Air testing of 200mm dia. Sewers	Item	1	150000	150000
25	Testing of manholes	Item	1	100000	100000
		SUB-TOTAL 1			2 078 825.00
26	Contingencies @ 10%				207 882.50
TOTAL ESTIMATED CONSTRUCTION COST					2 286 707.50

Annexure B

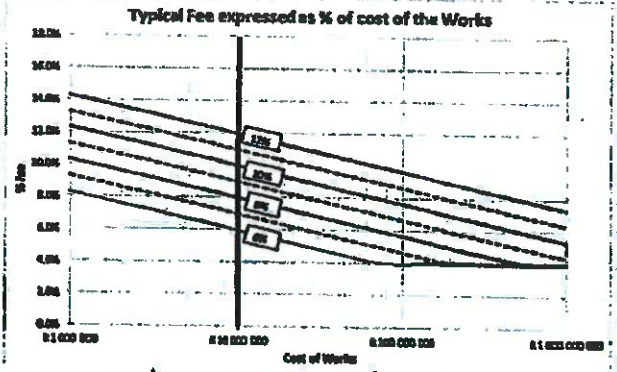
Estimated Cost of Professional Fees

TOWNHILL HOSPITAL - UPGRADING OF WATERMAIN AND SEWER RETICULATION SYSTEMS
COST ESTIMATE FOR PROFESSIONAL SERVICES

ANNEXURE B

Guideline Scope of Services and Tariff of Fees for Persons Registered in terms of the Engineering Profession Act, 2000 (Act No. 46 of 2000), Board Notice 201 of 2012.

Fee Category	Typical Lower Limit	Typical Upper Limit
Based on a R10 million Cost of Works		
A	8.0%	8.0%
B	7.0%	9.0%
C	8.0%	10.0%
D	9.0%	11.0%
E	10.0%	13.0%
F	11.0%	14.0%
G	12.0%	15.0%
M	2.0%	4.0%
N	Not appropriate to estimate fees based on cost of works	



ESTIMATED COST OF THE WORKS			R22 086 700.00	
	Applicable %	Category	Total Basic Fee	
	7.0%	A	1 546 069.00	
TOTAL ESTIMATED FEE (EXCLUDING VAT)			1 546 069.00	
Stage	Description of Stage	Normal Split	Proposed Split	Basic Fee
1	Inception	5%	0%	-
2	Concept and Viability	25%	25%	386 517.25
3	Design Development	25%	25%	386 517.25
4	Documentation and Procurement	15%	15%	231 910.35
5	Contract Administration and Inspection	25%	25%	386 517.25
6	Closeout	5%	5%	77 303.45
SUB-TOTAL BASIC FEE (EXCL VAT)				1 468 765.55
DISCOUNT OFFER (%)			0.00%	
TOTAL ESTIMATED BASIC FEE (EXCLUDING VAT)			1 468 765.55	
ADDITIONAL SERVICES AND DISBURSEMENTS				
	Survey			150 000.00
	Geotechnical Services			120 000.00
	Environmental Consultant			80 000.00
	Health and Safety Consultant			80 000.00
	Supervision			-
	Travelling			60 000.00
	Accommodation			-
	PLC Members			-
TOTAL ESTIMATED DISBURSEMENT FEE (EXCLUDING VAT)			R 490 000.00	
TOTAL ESTIMATED BASIC FEE + DISBURSEMENT FEE (EXCLUDING VAT)			R 1 958 765.55	
VAT @ 15%			R 293 814.83	
TOTAL ESTIMATED FEE (INCLUDING VAT)			R 2 252 580.38	

APPENDIX E:
FORM A - SCHEDULE OF TEAM
MEMBERS PROPOSED FOR THE
PROJECT

FORM A

SCHEDULE OF TEAM MEMBERS PROPOSED FOR THE PROJECT

Please note that if any of the information disclosed in the table below is found to be dishonest or inaccurate, this may result in the withdrawal of any award already and a repudiation of this agreement. Further appropriate action may also be taken.

PROPOSED TEAM MEMBERS	REGISTERED WITH RELEVANT PROFESSIONAL COUNCIL (YES/NO)	DATE OF REGISTRATION AS A PROFESSIONAL / CANDIDATE	PROFESSIONAL REGISTRATION IN GOOD STANDING (YES/NO)	PROFESSIONAL REGISTRATION NUMBER	YEARS OF POST REGISTRATION EXPERIENCE
Civil Engineering Firm:(Lead Consultant)					
<ul style="list-style-type: none"> • Lead Professional: 					
<ul style="list-style-type: none"> • Support Professional/Candidate: 					
Structural Engineering Firm:					
<ul style="list-style-type: none"> • Lead Professional: 					
<ul style="list-style-type: none"> • Support Professional/Candidate: 					

PROPOSED TEAM MEMBERS	REGISTERED WITH RELEVANT PROFESSIONAL COUNCIL (YES/NO)	DATE OF REGISTRATION AS A PROFESSIONAL / CANDIDATE	PROFESSIONAL REGISTRATION IN GOOD STANDING (YES/NO)	PROFESSIONAL REGISTRATION NUMBER	YEARS OF POST REGISTRATION EXPERIENCE
Electrical Engineering Firm:					
<ul style="list-style-type: none"> • Lead Professional: 					
<ul style="list-style-type: none"> • Support Professional/Candidate: 					
Mechanical Engineering Firm:					
<ul style="list-style-type: none"> • Lead Professional: 					
<ul style="list-style-type: none"> • Support Professional/Candidate: 					
<ul style="list-style-type: none"> • Specialist Fire Engineer/Technologist: (Must be ECSA registered Mechanical Engineer & may be the same as the Mechanical Lead Professional if suitably qualified and experienced) 					

PROPOSED TEAM MEMBERS	REGISTERED WITH RELEVANT PROFESSIONAL COUNCIL (YES/NO)	DATE OF REGISTRATION AS A PROFESSIONAL / CANDIDATE	PROFESSIONAL REGISTRATION IN GOOD STANDING (YES/NO)	PROFESSIONAL REGISTRATION NUMBER	YEARS OF POST REGISTRATION EXPERIENCE
<ul style="list-style-type: none"> Specialist Wet Services Engineer/Technologist: (Must be ECSA registered Mechanical Engineer & may be the same as the Mechanical Lead Professional if suitably qualified and experienced) 					
Quantity Surveying Firm:					
<ul style="list-style-type: none"> Lead Professional: 					
<ul style="list-style-type: none"> Support Professional/Candidate: 					
Construction Health and Safety Firm:					
<ul style="list-style-type: none"> Lead Professional: 					
<ul style="list-style-type: none"> Support Professional/Candidate: 					

APPENDIX F: CURRICULUM VITAE TEMPLATE



CURRICULUM VITAE TEMPLATE

Please note: DO NOT CHANGE THE FORMAT OF THE TABLES. DOING SO WILL LEAD TO 0 POINTS BEING AWARDED.

1. Personal Details

Name:	
Date of Birth:	
Current Employer:	
Current Position Held:	
Period with Current Employer: (mm-yyyy to mm-yyyy)	
Previous Employer:	
Position Held with Previous Employer:	
Period with Previous Employer: (mm-yyyy to mm-yyyy)	

2. Education (Degrees, Diplomas, BTech and Post Graduate Qualifications ONLY)

Qualification	Year Obtained	Institution



3. Professional Registration/s

Professional Body	Year Obtained	Expiry Date	Category of Professional Registration

4. Relevant Project Experience (Provide a MAXIMUM of 3 relevant projects)

Name of Project	Client	Project Start Date	Project End Date	Project Value	Role on Project

APPENDIX G: RETURNABLES – RESPONSIVENESS

APPENDIX H: RETURNABLES – ELIGIBILITY CRITERIA

**REGISTERED PROFESSIONAL CIVIL
ENGINEER/TECHNOLOGIST
CERTIFICATE AND PROFESSIONAL
INDEMNITY**

**REGISTERED PROFESSIONAL
STRUCTURAL
ENGINEER/TECHNOLOGIST
CERTIFICATE AND PROFESSIONAL
INDEMNITY**

**REGISTERED PROFESSIONAL
QUANTITY SURVEYOR CERTIFICATE
AND PROFESSIONAL INDEMNITY**

**REGISTERED PROFESSIONAL
MECHANICAL
ENGINEER/TECHNOLOGIST
(INCLUDING FIRE ENGINEER AND WET
SERVICES ENGINEER) CERTIFICATE
AND PROFESSIONAL INDEMNITY**

**REGISTERED PROFESSIONAL
ELECTRICAL
ENGINEER/TECHNOLOGIST
CERTIFICATE AND PROFESSIONAL
INDEMNITY**

**REGISTERED PROFESSIONAL
CONSTRUCTION HEALTH AND SAFETY
CERTIFICATE AND PROFESSIONAL
INDEMNITY**

APPENDIX I: RETURNABLES – FUNCTIONALITY CRITERIA

LEAD CIVIL ENGINEER/TECHNOLOGIST CV

**LEAD CIVIL
ENGINEER/TECHNOLOGIST PROJECT
COMPLETION CERTIFICATES,
LETTERS OF AWARD / SIGNED FINAL
ACCOUNT SUMMARIES / REFERENCE
LETTERS**

LEAD STRUCTURAL ENGINEER/TECHNOLOGIST CV

**LEAD STRUCTURAL
ENGINEER/TECHNOLOGIST PROJECT
COMPLETION CERTIFICATES,
LETTERS OF AWARD / SIGNED FINAL
ACCOUNT SUMMARIES / REFERENCE
LETTERS**

LEAD QUANTITY SURVEYOR CV

**LEAD QUANTITY SURVEYOR PROJECT
COMPLETION CERTIFICATES,
LETTERS OF AWARD / SIGNED FINAL
ACCOUNT SUMMARIES / REFERENCE
LETTERS**

LEAD MECHANICAL ENGINEER/TECHNOLOGIST CV

**LEAD MECHANICAL
ENGINEER/TECHNOLOGIST PROJECT
COMPLETION CERTIFICATES,
LETTERS OF AWARD / SIGNED FINAL
ACCOUNT SUMMARIES / REFERENCE
LETTERS**

FIRE ENGINEER/TECHNOLOGIST CV

**FIRE ENGINEER/TECHNOLOGIST
PROJECT COMPLETION
CERTIFICATES, LETTERS OF AWARD /
SIGNED FINAL ACCOUNT SUMMARIES
/ REFERENCE LETTERS**

WET SERVICES ENGINEER/TECHNOLOGIST CV

**WET SERVICES
ENGINEER/TECHNOLOGIST PROJECT
COMPLETION CERTIFICATES,
LETTERS OF AWARD / SIGNED FINAL
ACCOUNT SUMMARIES / REFERENCE
LETTERS**

LEAD ELECTRICAL ENGINEER/TECHNOLOGIST CV

**LEAD ELECTRICAL
ENGINEER/TECHNOLOGIST PROJECT
COMPLETION CERTIFICATES,
LETTERS OF AWARD / SIGNED FINAL
ACCOUNT SUMMARIES / REFERENCE
LETTERS**

LEAD CONSTRUCTION HEALTH AND SAFETY AGENT CV

**LEAD CONSTRUCTION HEALTH AND
SAFETY AGENT PROJECT
COMPLETION CERTIFICATES,
LETTERS OF AWARD / SIGNED FINAL
ACCOUNT SUMMARIES / REFERENCE
LETTERS**

CIVIL ENGINEERING DISCIPLINE ORGANOGRAM

STRUCTURAL ENGINEERING DISCIPLINE ORGANOGRAM

QUANTITY SURVEYING DISCIPLINE ORGANOGRAM

**MECHANICAL ENGINEERING
(INCLUDING FIRE
ENGINEER/TECHNOLOGIST AND WET
SERVICES
ENGINEER/TECHNOLOGIST)
DISCIPLINE ORGANOGRAM**

ELECTRICAL ENGINEERING DISCIPLINE ORGANOGRAM

CONSTRUCTION HEALTH AND SAFETY DISCIPLINE ORGANOGRAM