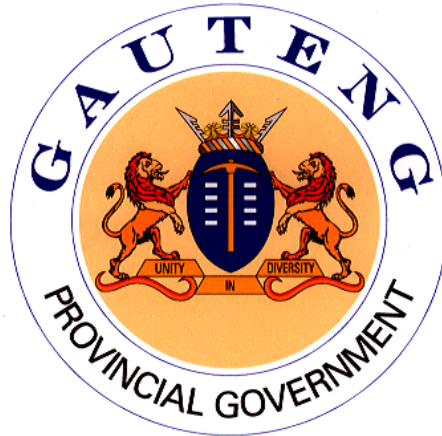


GAUTENG PROVINCIAL GOVERNMENT



Sustainable Health Care Waste Management in Gauteng

TECHNICAL SPECIFICATION FOR HEALTH CARE RISK WASTE MANAGEMENT SERVICES

for the

GAUTENG DEPARTMENT OF HEALTH

November 2003

TENDER VERSION

Technical Specification for Health Care Risk Waste Management Services in Gauteng

Sustainable Health Care Waste Management in Gauteng

November 2003

TENDER VERSION

Job	1459103		
Ref.No.	MOKH 03-02-17 VOL 4 Project Specification V13.DOC	Prep. by	MOKH
Edition	V11	Checked	GDH/KO/TOK/DF/
Date	30-03-2004	Appd.	DAC / TOK

Table of contents

1	Introduction and Interpretation.....	1
2	General	1
3	Definitions.....	1
4	Scope of supply.....	10
4.1	The Services	10
4.2	The Facilities.....	11
5	The Waste.....	12
5.1	General Infectious Waste.....	13
5.2	Sharps Waste	14
5.3	Pathological Waste.....	14
5.4	Chemical Waste	14
5.5	Extraordinary Items.....	14
5.6	Waste Segregation and containerisation.....	14
6	Supply of Disposable Containers.....	16
6.1	Distribution of Disposable Containers.....	16
6.2	Brackets, Baskets and Freestanding Racks	16
6.3	Disposable Containers delivery point	17
7	Supply of Reusable Containers	17
7.1	Ownership of Reusable Containers	17
7.2	Maintenance of Reusable Containers	18
7.3	Managing supply of Reusable Containers.....	18
7.4	Tracking system for Reusable Containers	18
7.5	Disinfection of Reusable Containers	19
7.6	Storage of Reusable Containers.....	19
8	Collection of the Waste	19
8.1	Waste Collection Point.....	20
8.2	Storage of Waste.....	20
8.3	Frequency of Waste Collection.....	21
8.4	Weighing of the Waste	21
8.4.1	Hospitals	21
8.4.2	Clinics and Community Health Centres	21
8.4.3	Calibration of Scales	22
8.4.4	Weighing discrepancies	22
8.5	Recording of Waste collected.....	22
8.6	Pathological Waste at Clinics.....	23
8.7	Collection of Extraordinary Items.....	23
8.8	Mobile Clinics	23
9	Transport	23
9.1	Requirements for transportation	23
9.2	Requirements for the Waste Vehicles	24
10	Treatment of the Waste	24
10.1	Requirements for Treatment.....	25
10.2	Handling and storing of Waste at the Treatment Plant	25
10.3	Waste Storage during a Planned Outage.....	25
11	Residues disposal.....	25
12	Training and Consultancy Support.....	26
13	Mobilisation and Rollout	26

13.1	Mobilisation	26
13.2	Rollout Period.....	26
13.3	Dual system operation during the Rollout Period	26
13.3.1	Rollout Plans	27
13.4	Rollout at each Facility.....	29
13.5	Consultancy during the Rollout Period	29
14	Handover of services	30
15	Communications.....	30
15.1	Meetings	30
15.2	Reporting.....	31
15.2.1	Annual Report	31
15.2.2	Monthly Report	33
15.2.3	Incident Report.....	33
15.3	Inspections	34
16	Backup arrangements	34
17	Health and Safety	35
18	Payment for Services and Supplies.....	35
18.1	Supply and distribution of Disposable Containers	36
18.2	Collection, transport, Treatment and disposal of the Waste.....	36
18.3	Supply and installation of Durable Items.....	36
18.4	Training	37
18.5	Extraordinary items.....	37
18.6	Penalties.....	37
18.7	Remuneration for lost Reusable Containers	38
18.8	Adjustment of prices and Penalties	39

Annexures:

Annexure 1: Specifications for Disposable Containers

Annexure 2: Specifications for Reusable Containers

Annexure 3: Cleansing, disinfection and inspection of reusable Waste containers

Annexure 4: Specifications for Training Programme and consultancy support

Annexure 5: List of Facilities

Annexure 6: Schedule of Rates & Quantities

Annexure 7: Gauteng Regulations

Annexure 8: Background Information

1 Introduction and Interpretation

Save as otherwise specified in this Project Specification, all words, expressions and abbreviations used in this Project Specification shall (unless the context otherwise requires or admits) have the meanings respectively assigned to them in Section 3 of this Project Specification. For the purposes of compiling the provisions of this Project Specification, no specific requirement specified herein shall limit the generality of any other requirement.

All tenders shall comply with this Project Specification. Alternative tenders shall only be considered by the Department if the Tenderer also submitted a conforming tender.

This Project Specification shall apply to the Contract for each of the 3 respective regions of Gauteng Department of Health, with the List of Facilities and the Schedule of Rates and Quantities specified for each Region.

The several documents forming the Contract are to be taken as mutually explanatory of one another and in the event of there being any ambiguity in or discrepancy between the various documents, the documents will take precedence in the following order:

- Project Specifications and Annexure;
- Special Conditions of Contract;
- Conditions of Tender;
- General Conditions of Contract, Tender and Order.

2 General

This Project Specification specifies and contains the Department's requirements for the Services and the Contractor shall, at all times throughout the Contract Period, perform and complete each of the Services in such manner and at such times as shall comply with and satisfy the requirements of this Project Specification and its Annexures.

3 Definitions

In addition to the Definitions presented in the General Conditions of Tender, Contract and Order, and unless in this Contract the context otherwise requires or admits, the following words and/or expressions shall have the meanings respectively ascribed to them below.

Where the context requires, words importing the singular number shall include the plural and vice versa.

Basket Means a device for holding a disposable plastic liner container. Figures 3 and 4 in Annexure 1 of the Project Specifications [Specifications for Disposable Containers] shows typical examples of Baskets.

Bracket Means a device for holding a disposable rigid container such as a Sharps Container or a Specican Container. Figures 1 and 2 in

Annexure 1 of the Project Specifications [Specifications for Disposable Containers] shows typical examples of Brackets.

Chemical Waste	Means expired pharmaceuticals from pharmacies at the Facilities, waste from oncological wards, cytotoxic waste, and other chemical waste generated at the Facilities. Chemical Waste includes liquids and solids and can include flammable substances.
Clinic	Means a Facility designated by “C” in the List of Facilities or a Facility designated as “CHC” in the List of Facilities.
Collection Programme	Means the Contractor’s programme for collecting Waste from the Facilities. The programme shall specify days of the week and approximate times that Waste will be collected from each Facility.
Commencement of Services Date	Means the date occurring 60 days after the Contract Date, on which the Contractor shall take responsibility for removing the Waste from all Facilities in the Region.
Community Health Centre	Means a Facility designated as such by “CHC” in the List of Facilities.
Competent Authority	Means any agency, department, board, committee, governmental body, local authority, court, inspectorate, official regulator, public statutory person or appointee of the Republic or the Province (whether autonomous or not) having jurisdiction (whether by virtue of Legislation, delegated authority, customary law or otherwise) over any of the parties hereto, the subject matter of this Contract and/or the performance of any of the parties’ respective obligations under this Contract.
Contract Date	Means the date on which execution of the Contract commences.
Contract Period	Means the period from the Contract Date to the date that the Contract expires. The Contract Period would be 3-years or 5-years, as ultimately described in the Form of Agreement.
Controlled Combustion Treatment	Means any method, technique or process to render health care risk waste to flue gasses and residues, by means of oxidation at high temperatures. This includes oxidation of waste as well as other thermal treatment processes such as pyrolysis gasification or plasma processes insofar as the substances resulting from the treatment are subsequently incinerated.
Disposable Container	Disposable Containers shall include the following: <ul style="list-style-type: none">• Sharps Containers, including containers for long sharps;• Specican Containers for Pathological Waste;• Specican Containers for Chemical Waste;• Red liners for General Infectious Waste, including sealing mechanisms for liners;• Black liners for General Waste [option].

Department's Representative	Means such party as the Department may appoint as the Department's Representative for the purposes of this Contract and notify the Contractor in writing.
Durable Items	Means collectively Brackets, Baskets and Freestanding Racks.
Environment	Environment is defined as i) the natural environment, consisting of air, water, land and all forms of life, ii) the social, political, cultural, economic and working context and other factors that determine people's place in and influence on the environment, and iii) natural and constructed spatial surroundings.
Exposure	The intake of radiation or pollutant by organisms present in a particular environment (i.e. human, natural), which represents a potential health threat to the living organisms in that environment.
Extraordinary Items	Disposable items not forming part of the normal daily Waste stream, but with characteristics similar to that of Waste.
Facility	Means a provincial hospital, community health centre, clinic, mortuary or any other health care facility included in the List of Facilities.
Facility Rollout Plan	Means a detailed strategy for the systematic implementation of the new Waste Management System at individual Facilities within a particular Region.
Freestanding Rack	Means a loose device standing on a floor for the purpose of holding a disposable plastic liner. Figure 5 in Annexure 1 of the Project Specifications [Specifications for Disposable Containers] shows a typical example of a Freestanding Rack.
General Infectious Waste	Means Infectious Waste, other than Sharps Waste and Pathological Waste, which is suspected to contain pathogens and normally causes, or significantly contributes to the cause of increased morbidity or mortality of human beings. It inter alia includes items such as blood, contaminated dressings, contaminated diapers or any other disposable items suspected of being infectious.
Good Engineering and Operating Practices	Means (in relation to the performance of any activity, duty, responsibility and/or obligation of the Contractor to which this standard is stated in this Contract to apply) the standards, practices, methods and procedures and the degree of skill, care, diligence, prudence and foresight that would reasonably be expected of a skilled and experienced contractor engaged in the same type of undertaking under the same or similar factual, practical and/or physical circumstances at the time when the relevant decision or judgement is made and/or the relevant act or operation is performed and, without prejudice to the foregoing generality, shall include taking all reasonable steps to ensure that:-

- adequate materials, resources and supplies, are constantly available to undertake the Services under normal conditions and reasonably anticipated abnormal conditions;
- sufficient personnel are available and are adequately experienced and trained to transport and handle the Waste and operate the Treatment Plant properly, efficiently and within the manufacturers' guidelines and specifications and are capable of adequately responding to emergency conditions;
- preventive routine and non-routine maintenance and repairs are performed to the Treatment Plant and the Contractor's equipment in general, on a basis that ensures reliable and safe operation, and are performed by knowledgeable, trained and experienced personnel utilising suitable equipment, tools and procedures;
- appropriate monitoring and testing is done to ensure that all equipment at the Treatment Plant and the Contractors equipment in general, is functioning as designed and to provide assurance that such equipment will function properly under normal conditions;
- appropriate planned procedures are carried out to ensure the proper collection, transport, handling, treatment and disposal of the Waste, Residues and effluents under normal conditions and reasonably anticipated abnormal conditions;
- the Department's Requirements, all Necessary Consents and all applicable Statutory Requirements are complied with.

Handover Period Has the meaning given to it in section 14 of this Project Specification.

Health Care Waste Management Regulations Means the Regulations promulgated in terms of Section 24 of the Act, under Provincial Government Notice No. 3003 as published in Provincial Government Gazette No. 373, dated 11 September 2003 as amended.

Hospital Means a Facility named as H-C, H-D, H-R, H-M or H-R in the List of Facilities.

Implementation Period Means for each Facility the period from when the Facility begins to use elements of the new Waste Management System until the new Waste Management System is fully implemented at that Facility.

In-service Training Means the training provided by the division in the Department responsible for organising training programmes for nurses and doctors at Facilities.

Integrated Health Care Waste Management: Is a holistic and integrated course of action that specifies the institutional, infra-structural and technological support, as well as human and financial resources required to

establish and implement an integrated Health Care Waste Management Strategy.

Landfill

To dispose of waste on land, whether by use of waste to fill in excavations or by creation of a landform above grade, where the term ‘fill’ is used in the engineering sense.

Large Order

Means a single order for supply of Disposable Containers for a particular Facility exceeding 6 month’s average consumption of the Disposable Containers ordered by that Facility.

Liquid Wastes

Any waste material, whether it being hazardous or non-hazardous and that is identified to contain “free liquids”, which readily separate from the solid portion of waste under ambient temperature and pressure.

List of Facilities

See Annexure 5 [List of Facilities] of the Project Specification.

Manifest System

A system for documenting and controlling the fate of Waste from “cradle-to-grave”.

Medicine

Means any substance or mixture of substances used or purporting to be suitable for use or manufacture or sold for use in:

- the diagnosis, treatment, mitigation, modification or prevention of disease, abnormal physical or mental state or the symptoms thereof in humans; or
- restoring, correcting or modifying any somatic or physic or organic function in humans.

Monthly Waste Collection Payment : Means:

(i) For each type of Reusable Container, the number of Reusable Containers Collected (converted to a volumetric figure) multiplied with the “Fixed volumetric cost for Waste” for Type A and Type B Reusable Containers respectively (Only applicable where for Reusable Containers are used);

plus

(ii) The total mass (including Disposable Container mass where applicable) of Waste Collected, transported, Treated and disposed of, multiplied by the “Extra-over mass cost for Waste” for the respective Waste Categories as indicated in the Schedule of Rates and Quantities (Applicable for all container types);

minus

(iii) The sum of all Penalties deductible for the relevant month (Applicable for all container types).

For all Waste collected in Disposable Containers, *Monthly Waste Collection Payment* will be based on Items (ii) and (iii) only.

Monthly Report

Has the meaning given to it in Section 15.2.2 of this Project Specification.

Mobilisation Period	Means an uninterrupted period of 60 days commencing on the Contract Date.
Non-Combustion Treatment	Means any method, technique or process for microbial inactivation or for otherwise altering the biological, chemical or physical characteristic of Waste so as to render the Waste unrecognisable and in order to reduce the hazards it presents, and facilitate disposal by any means of technology which does not constitute controlled combustion treatment, including but not limited to autoclave treatment;
Necessary Consents	Means all consents, licences, certificates, authorisations, permissions, approvals and permits of any Competent Authority and/or Interested Party that are necessary for the lawful performance of the Services and/or any of the Contractor's other obligations under this Contract.
Pathological Waste	Means tissues, organs, body parts, human foetuses and deceased animals infected with zoonotic diseases, blood, and body fluids, but excludes teeth, hair and nails;
Penalties	Means imposing of a financial liability on the Contactor when Service Failures occurred during the execution of the Contract that was reported by the HCW Officer of any particular Facility. Penalties are deducted from the monthly payment certificate if upheld by the Department's Representative in accordance with Section 18.6 of the Specification.
Planned Outage	Means any shutdown or stoppage affecting the operating capacity of the Treatment Plant or any part thereof, which is planned and of which the Department's Representative has been notified in writing, no later than 1 month before its occurrence.
Price Adjustment Factor	Has the meaning given to it in Section 18.8 of this Project Specification.
The Province	Means Gauteng province of the Republic.
Region	Means the Gauteng Department of Health Region [A, B or C] as specified in the Contract.
Regional Office	Means the Department's administrative office in the Region.
Registration Sheet	Means the documentation required for the detailed recording of Waste collection from individual Facilities during each collection round.
Regulations	Means Annexure 7 [Gauteng Health Care Waste Management Regulations] of the Project Specification.

Replacement Cost	Means the cost of replacing a Reusable Container lost or severely damaged while in the care of a Facility. The Replacement Cost is specified in Annexure 6 [Schedule of Rates and Quantities] of the Project Specification.
Residues	Means any solid or liquid product derived from the Treatment of Waste at the Treatment Plant.
Reusable Container	Means a container manufactured in accordance with Annexure 2 [Specifications for Reusable Containers] of the Project Specification to be used and re-used for collection of Waste at the Facilities and transport of Waste by the Contractor from the Facilities to the Treatment Plant.
Rollout	Means for each Facility the process of implementing the new Waste Management System.
Rollout Completion Date	Means the date occurring 6 months after the Contract Date.
Rollout Period	Means the period from the Commencement of Services Date to Rollout Completion Date.
Regional Rollout Plan	Means a detailed strategy for the systematic implementation of the new Waste Management System at all Facilities within a particular Region.
Scheduled Substances	Means Medicines prescribed by the Minister of Health under Section 22A of Medicines and Related Substances Control Act, Act 101 of 1965.
Segregation	The systematic separation of solid waste into designated categories of HCGW and Waste respectively.
Service Failure	Means the Contractor's failure to comply with certain requirements of the Contract. Service Failures are defined in Section 18.3 of the Project Specification.
Services	Means the services, duties and obligations to be fulfilled by the Contractor in accordance with this Project Specification throughout the Services Period.
Services Period	Means the period from the Commencement of Services Date to the expiry of the Contract.
Sharps Container	Means a disposable puncture resistant container which, when sealed, cannot be opened without great difficulty, and which is spill proof under normal handling conditions, used for the storage and transport of infected sharps items.

Specican Container	Means a disposable puncture resistant container which, when sealed, cannot be opened without great difficulty, and which is spill proof under normal handling conditions, used for the storage and transport of infected pathological waste or waste generated in isolation wards.
Statutory Requirements	Means the requirements of any present or future Legislation, ordinance, proclamation, by-law, directive, decision, regulation, rule, order, notice or code of practice having the force of law in the Province;
Training Cycle	Has the meaning given to it in Section A4.2.1 of Annexure 4, [Specifications for Training Programme and Consultancy Support]of this Project Specification.
Training Programme	Has the meaning given to it in Annexure 4 [Specifications for Training Programme and consultancy support] of this Project Specification.
Transporter	A person, organisation, industry or enterprise engaged in or offering to engage in the transportation of Waste. For the purpose of this Tender a transporter shall be registered with the Gauteng Department of Agriculture, Conservation, Environment and Land Affairs as well as the local authorities in whose area of jurisdiction it proposes to operate.
Treatment	Means any method, technique, or process designed to change the biological character or composition of any Waste so as to eliminate its potential for causing disease, pollution impact on the environment and risk to health.
Treatment Plant	Means the plant or plants used by the Contractor to Treat the Waste.
Unit Price	Means the volumetric and mass price for collecting, transporting, treating and disposing of Waste, as specified in the Schedule of Rates and Quantities.
Unplanned Outage	Means any breakdown, stoppage, interruption, outage or cessation of, in or affecting the operating capacity of the Treatment Plant which occurs other than as a consequence of a Planned Outage.
Waste	Waste shall, for the purpose of this Contract, be considered to include: <ul style="list-style-type: none">• General Infectious Waste;• Sharps Waste;• Pathological waste;• Chemical Waste;• Extraordinary Items.
Waste Collection Point	Means for each Facility, the location at which the Waste is delivered to, by the Facilities, in Reusable Containers or Disposable

Containers and where the Contractor assumes responsibility of the Waste. The Contractor shall during its Rollout establish, in consultation with each Facility, the location of each Waste Collection Point.

Waste Information Regulations

Means the Regulations promulgated in terms of Section 24 of the Act, under Provincial Government Notice No 3002 as published in Provincial Government Gazette No. 373, dated 11 September 2003 as amended.

Waste Information System

Means a system comprising of at least a register of the information submitted in terms of the Waste Information Regulations, in a format which is accessible to the public, and which, amongst other things, facilitates an on-line search for information pertaining to waste in the Gauteng province.

Waste Management

All activities, administrative and operational, associated with the handling, transport, storage, treatment and disposal of Waste. For the purpose of this tender it will also include the supply, distribution and maintenance of all disposable as well as reusable containers.

Waste Management System

Means collectively the supply of Disposable Containers, supply of Reusable Containers, the Collection, Transport and Treatment and disposal, specified in the Project Specification.

Waste Officer

Means for each Facility a person appointed and authorised to verify and sign the Registration Sheet, also being the Contractor's contact person at Facility level.

Waste Vehicles

Means the vehicles used by the Contractor to transport Waste.

List of Acronyms

C	Clinic (in the List of Facilities).
CBO	Community Based Organisation.
CEO	Chief Executive Officer.
CHC	Community Health Centre.
CIRMA	Core Inflation Rate for Metropolitan Areas.
CPD	Continuing Professional Development.
CPI	Consumer Price Index.
DACEL	Department of Agriculture, Conservation, Environment and Land Affairs.
DPTR&W	Department of Public Transport, Roads and Works.
DWAF	Department of Water Affairs and Forestry.
GALA	Gauteng Association of Local Authorities.

GDACEL	Gauteng Department of Agriculture, Conservation, Environment and Land Affairs.
GDoH	Gauteng Department of Health.
GDPtr&W	Gauteng Department of Public Transport, Roads and Works.
GDTPW	Gauteng Department of Transport and Public Works.
GSSC	Gauteng Shared Services Centre.
HCF	Health care facility.
HCGW	Health Care General Waste.
HCRW	Health Care Risk Waste.
HCW	Health Care Waste.
HC-WIS	Health Care Waste Information System.
HCWM	Health Care Waste Management.
HDPE	High Density Poly Ethylene.
I&AP's	Interested and Affected Parties.
NEMA	National Environmental Management Act.
NGO	Non-Governmental Organisation.
NWMS	National Waste Management Strategy.
OHS	Occupational Health and Safety.
PE	Polyethylene.
PP	Polypropylene.
PPE	Personal protective equipment.
PPI	Production Price Index.
PVC	Polyvinyl Chloride.
RSA	Republic of South Africa.
SA	South Africa .
SABS	South African Buro of Standards, trading as SABS.
SANS	South African National Standards.
WHO	World Health Organisation.
WIS	Waste Information System.

4 Scope of supply

4.1 The Services

The objective of providing the services covered in this Contract is to assist Facilities in the Region in managing Waste and to remove this Waste from the premises, Treat it and dispose of it.

All processes and procedures required to be adopted, followed and /or implemented to ensure the safe and efficient removal of Waste from the Facilities shall, in so far as not specifically addressed in this Project Specification be performed and executed by the Contractor in accordance with Good Operating and Engineering Practices, the Necessary Consents and the Statutory Requirements. The Contractor shall in the process of rendering the Services, be liable for damage done to the Department's property.

The scope of supply for the Services shall for the duration of the Service Period, in general terms include the provision by the Contractor of all plant, equipment (including maintenance thereof), personnel, activities, services, know-how and expertise necessary to safely and efficiently collect all Waste from the Waste Collection Points at all Facilities in the Region and Treat this Waste and dispose of the Residues.

The scope of supply shall, for the duration of the Services Period, more specifically include:

- Supply and distribution of all Disposable Containers required to safely collect and remove the Waste from all Facilities in the Region;
- Supply and installation of Durable Items for Disposable Containers at all Facilities in consultation with each Facility;
- Supply of all Reusable Containers necessary to collect and transport the Waste from the various Facilities in the Region to the Treatment Plant;
- Supply, installation and maintenance of freezers at clinics generating Pathological Waste, or alternatively design the Collection Programme for the said Clinics to ensure that maximum allowable storage time for Pathological Waste is not exceeded;
- Collection of the Waste from all Facilities in the Region;
- Transportation of the Waste from all Facilities in the Region to the Treatment Plant;
- Interfacing with the Facilities in securing a safe and efficient removal of Waste as well as the supply and distribution of Reusable Containers and Disposable Containers;
- Provision of a Training Programme on the Segregation and handling of Waste to staff at all Facilities;
- Supply and maintenance of a washing and disinfection facility for the Reusable Containers;
- Washing, disinfection and drying of all Reusable Containers following the emptying of the Waste at the Treatment Plant;
- Provision and/or securing of sufficient and suitable treatment capacity at a Treatment Plant, together with staff, consumables, know how and approvals necessary for Treatment of the Waste;
- Treatment of all Waste collected from the Facilities;
- Transport of Residues to an appropriately permitted, developed and operated landfill;
- Reporting to the Department's Representative;
- Convening and attending meetings and liaising with the Department's Representative;
- Obtaining all Necessary Consents prior to commencing the Services and maintaining such Necessary Consents throughout the Services Period.

Even though the Contractor is *inter alia* to provide lockable freezers for the storage of Pathological Waste at certain clinics, Reusable Containers including appropriate cleansing and disinfection equipment, all Durable Items as per the definition, Waste Vehicles as well as Treatment Plants, only the ownership of the Durable Items will automatically be transferred to the Department.

4.2 The Facilities

The Facilities to be serviced by the Contractor under this Contract are hospitals and clinics, together with other minor generators of Waste in the Region, operated by the Gauteng Department of Health. The Contractor shall service all Facilities which are included in the List of Facilities. The List of Facilities is presented in Annexure 5 [List of Health Care Facilities]. The Contractor will throughout the Contract Period have exclusive right for the supply of all Disposable Containers used for Waste

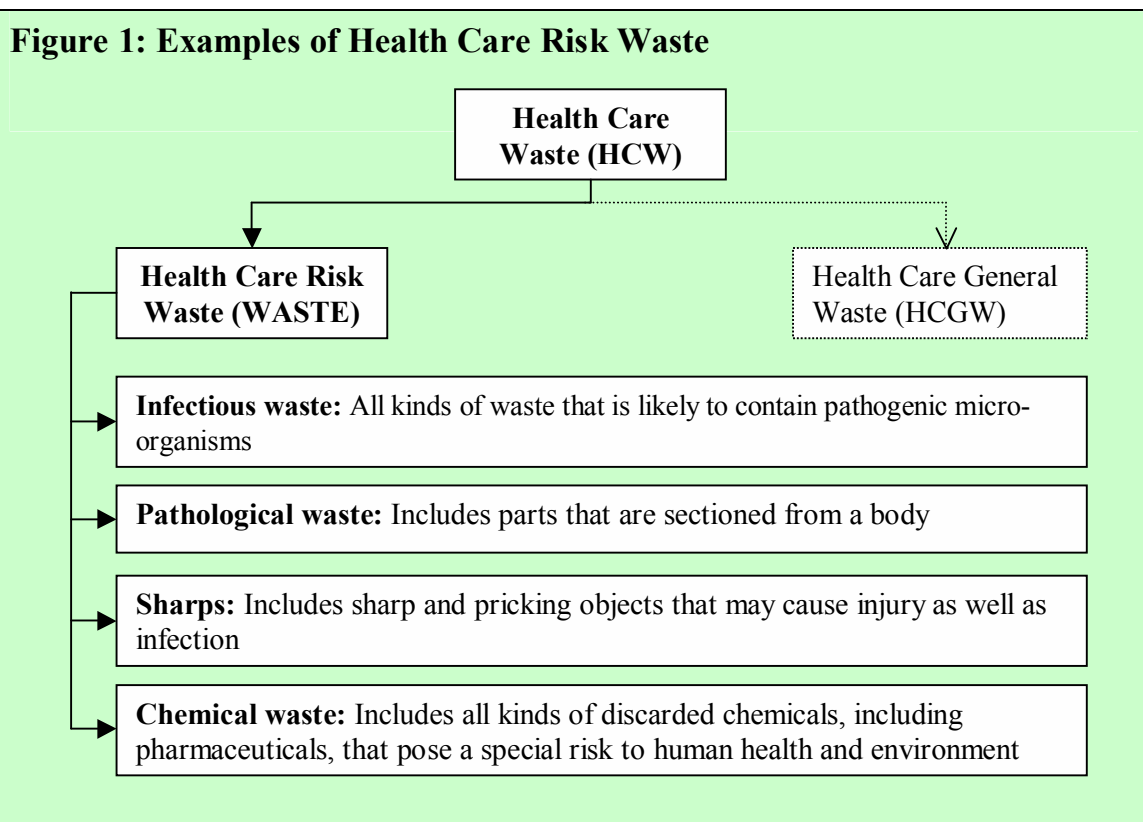
as well as the collection and treatment of Waste generated by any of the Facilities presented in the List of Facilities, or any amended list as allowed for hereafter.

Where new Facilities are commissioned or where existing Facilities are shut down, the List of Facilities can be amended by the Department during the Contract Period. The Department shall give the Contractor written notice of any amendments to the List of Facilities. The Contractor shall upon receiving such notice, liaise with Facilities added to the list and arrange with the Department and the Facility for the commencement of Services at that Facility. Likewise, the Contractor shall in consultation with the Department and the Facility terminate its Services to Facilities that may be removed from the list.

The Contractor will not be entitled to receive any compensation, or to make any claim for costs or losses incurred as a result of a **decrease** of up to 15% in the Waste quantity, measured by mass and relative to the average Waste quantity collected for any particular Region during the 3 months following immediately after the Contract rollout was completed. Should the Waste quantity decrease by more than 15%, the Contractor will be entitled to negotiate appropriate and reasonable compensation from the Department. Similarly, should the Waste quantity measured by mass **increase** by more than 15%, the Department will be entitled to an appropriate and reasonable reduction in the treatment costs resulting from the better utilisation of the equipment and infrastructure by the Contractor.

5 The Waste

Health Care Risk Waste (HCRW) is considered to be the hazardous component of Health Care Waste (HCW) generated in both large and small health care facilities. HCRW has the potential to create a number of environmental, health and safety risks, depending on the particular HCRW category, the way in which it is handled, as well as the way in which exposure takes place.



In Figure 1 above the four different categories of health care risk waste forming part of this Contract are illustrated with examples given of the most commonly found components.

Three of the components of HCRW have the potential to cause microbial contamination (infectious waste, pathological waste and sharps), but since pathological waste and sharps have additional characteristics, the containerisation and treatment methods are different and therefore constitute a separate component.

Radioactive waste is not to be collected by the Contractor and remains outside the scope of this Contract. For the purpose of this Contract, waste with a reading of less 74 Bq is not considered to be radioactive waste.

Waste shall, for the purpose of this Contract, be considered to include:

- General Infectious Waste;
- Sharps Waste;
- Pathological waste;
- Chemical Waste;
- Extraordinary Items.

5.1 General Infectious Waste

General Infectious Waste includes HCRW, other than Sharps Waste and Pathological Waste, which is suspected to contain pathogens and normally causes, or significantly contributes to the cause of increased morbidity or mortality of human beings. It inter alia includes items such as blood,

contaminated dressings, contaminated diapers or any other disposable items suspected of being infectious.

5.2 Sharps Waste

Sharps Waste includes any device having acute rigid corners, edges, or protuberances capable of cutting or piercing, including, but not limited to, all of the following:

- Hypodermic needles, syringes, blades, and needles with or without attached tubing; and
- Broken glass items, such as Pasteur pipettes and blood vials contaminated with infectious materials.

Sharps Waste will be containerised in Sharps Containers by the respective Facilities, prior to it being removed from the Facilities by the Contractor.

5.3 Pathological Waste

Pathological Waste includes tissues, organs, body parts, human foetuses, blood and body fluids, but excludes teeth, hair and nails.

5.4 Chemical Waste

Chemical Waste includes expired pharmaceuticals from pharmacies at the Facilities, waste from oncological wards, cytotoxic waste, and other chemical waste generated at the Facilities. Chemical Waste includes liquids and solids and can include flammable substances.

The laboratories at the Hospitals handle their own Chemical Waste, and such Chemical Waste is therefore not forming part of this Contract.

5.5 Extraordinary Items

The Facilities may from time to time generate large waste items that cannot be containerised and that are suspected of being infectious or that would contain hazardous chemicals. The exact nature of these items cannot be defined upfront but it can include contaminated mattresses and mercury containing items like fluorescent tubes.

5.6 Waste Segregation and containerisation

Sharps Waste

Sharps Waste will be containerised in disposable Sharps Containers by the staff at the Facilities, and collected in the Reusable Containers prior to the Contractor assuming responsibility for the Waste.

General Infectious Waste

General Infectious Waste will be collected in liners and containerised in the Reusable Containers by the Facility staff prior to the Contractor assuming responsibility for the Waste.

Pathological Waste

The Contractor shall ensure that Reusable Containers containing Specican Containers with Pathological Waste shall be clearly identifiable in accordance with Annexure 2, “Specifications for Reusable Containers”.

For Hospitals, Pathological Waste will in general be stored at the refrigerated mortuary. Pathological Waste will be containerised in Reusable Containers by the Facility staff. Unless the Contractor has agreed in writing with the Facility to do otherwise, with such agreement delivered to the Department’s Representative, Pathological Waste shall be removed from the Facility in a clearly identifiable tamper proof Reusable Container.

For Facilities generating small volumes of Pathological Waste, the Contractor may have a Reusable Container marked for Pathological Waste on the Waste Vehicle. From these Facilities, Pathological waste may be weighed and transferred to the Vehicle in Specican Containers. It is the Facility’s Responsibility to containerise Pathological Waste in a Specican Container and/or a Reusable Container prior to the Contractor collecting the Pathological Waste. Facility staff shall further ensure that Pathological Waste containers are clearly identifiable in order to allow the Contractor to select appropriate means of Treatment and disposal.

Chemical Waste

The Contractor shall ensure that Reusable Containers containing Chemical Waste shall be clearly identifiable in accordance with Annexure 2, “Specifications for Reusable Containers”.

In General Chemical Waste shall be placed at the Waste Collection Point by the Facility staff in a Reusable Container marked as Chemical Waste. However, due to the expected small volumes, Chemical Waste may also be containerised by Facility staff in Specican Containers marked as Chemical Waste.

Pharmaceutical waste will be segregated, containerised and clearly marked according to Scheduled Substances categories as prescribed by the Minister of Health under Section 22A of Medicines and Related Substances Control Act, Act 101 of 1965, thereby enabling the Contractor to comply with the legislated requirements during the handling, treatment and disposal of Chemical Waste.

Facility staff shall ensure that Chemical Waste is safely wrapped, bottled or otherwise contained, before placing it in the Specican Container or Reusable Container. Facility staff shall ensure that Chemical Waste is labelled with identification of the substance, in order to allow the Contractor to select appropriate means of Treatment and disposal.

Facilities generating small quantities of Chemical Waste may place the Chemical Waste at the Waste Collection Point in a Specican Container clearly marked for Chemical Waste. The Contractor shall, after having weighed the disposable container, place Chemical Waste collected in a Specican Container in a Reusable Container on the Waste Vehicle.

Expired pharmaceuticals may already have been accumulated at some Facilities at the Commencement of Services Date. The Contractor shall collect, transport, Treat and dispose of all accumulated pharmaceuticals within the first 12 months of the Services Period.

Extraordinary Items

Containerisation of Extraordinary Items shall be arranged between the Facility and the Contractor, whenever Extraordinary Items are generated.

6 Supply of Disposable Containers

The Contractor shall as part of its obligations, throughout the Services Period, supply and distribute Disposable Containers for each of the Facilities. Disposable Containers shall include the following:

- Sharps Containers, including containers for long sharps;
- Specican Containers for Pathological Waste;
- Specican Containers for Chemical Waste;
- Red liners for General Infectious Waste, including sealing mechanisms for liner;
- Black liners for General Waste [option]

Disposable Containers shall be supplied and delivered to the Facilities by the Contractor, upon the Contractor receiving an order from the Department's Representative, specifying types and quantities.

Disposable Containers shall comply with the specifications provided in Annexure 1 [Specifications for Disposable Containers].

6.1 Distribution of Disposable Containers

Except in the case of Large Orders, the Contractor shall deliver all Disposable Containers ordered to the individual Facilities within 2 days from receipt of a written order. Failure to do so shall constitute a Service Failure.

A Large Order placed by a Facility can be handled by the Contractor as a partial order, meaning that delivery can be split into several deliveries, insofar that sufficient supply for daily consumption by the Facility is secured. In the event of an order being handled by the Contractor as a partial order, the Contractor shall be responsible to ensure sufficient supply for daily consumption of any item(s) ordered, during the period from 2 days after receiving a written order, until delivery of that order has been finalised.

6.2 Brackets, Baskets and Freestanding Racks

The Contractor shall be responsible for supplying and installing wall mounted and nursing trolley mounted Brackets and Baskets, as well as Freestanding Racks for liners, Sharps Containers and Specican Containers. The Contractor shall during its Rollout for each Facility in the Region obtain from the Waste Officer directions on where to install such Durable Items. The Durable Items, shall be manufactured in accordance with Annexure 1 [Specifications for Disposable Containers].

In addition to the Waste Brackets, Baskets and Freestanding Racks referred to above, the Contractor shall, where required by the Facilities and instructed by the Department's Representative to do so, supply and install Baskets and Freestanding Racks for HCGW.

All Durable Items shall be delivered following a written order from the Facility or the Department's Representative. Once supplied and installed by the Contractor, all Durable Items shall become the property of the Department. The Contractor shall take utmost care to protect wall finishes like paint, vinyl and tiles against damage when installing the Durable Items, and shall ensure that the Durable Items are properly secured.

6.3 Disposable Containers delivery point

The Contractor shall during Rollout liaise with each Facility to establish acceptable delivery times and locations to which Disposable Containers shall be delivered. Should disposable containers be delivered during scheduled Waste collection rounds, the contractor will be responsible to ensure that new containers are not contamination during the transport and delivery thereof.

7 Supply of Reusable Containers

The Contractor shall, as part of its obligations and throughout the Contract Period, supply all Reusable Containers to be used for the collection and transport of Waste from the Facilities to the Treatment Plant.

The Reusable Containers supplied by the Contractor shall comply with the specifications in Annexure 2 [Specifications for Reusable Containers].

7.1 Ownership of Reusable Containers

The Contractor shall maintain ownership of all reusable containers throughout the Contract Period. In the event of Reusable Containers being lost or severely damaged while in the care of a Facility, the Contractor shall replace such Reusable Container(s) and the Department shall pay to the Contractor the replacement cost thereof.

When Reusable Containers, through the container recording system, are found not to be in circulation or accounted for at any particular Facility where previously delivered, three-monthly audits are to be undertaken. Should the Facility not be able to locate such Reusable Containers, it will be listed as missing and the Contractor will issue the Department with an invoice for the replacement of any such Reusable Containers, with clear reference to the Reusable Container numbers, then to be removed from the Reusable Container asset register. Should such Reusable Containers however at any later stage within the Contract Period be located by the Facility and found to be in a serviceable condition, the Contractor will be required to issue the Department with a credit note for such a container, once again indicating the container number. Such reusable container is then to be reinstated on the Reusable Container asset register.

Inspections for physical damage of Reusable Containers is however to be done each time when responsibility for Containers is transferred between the Contractor and the Facility, i.e. during delivery of empty Reusable Containers and during collection of full Containers. Where a Reusable Container delivered by the Contractor is found to be severely damaged, the Facility has the right to refuse acceptance of such Container, upon which the Contractor is to replace the damaged Reusable Container with an undamaged container. Where damage is however detected by the Contractor at the time when full Reusable Containers are collected, the Facility is to confirm such damage in writing, after which the Contractor is to have the container repaired or replaced, depending on what the most cost effective solution would be. The Contractor is then to invoice the Department accordingly for the repair or replacement of the said container, providing full details on the Reusable Container number. Should the Reusable Container be replaced, the damaged container is to be delivered to the Facility who will take responsibility for its destruction and disposal, after which the container is to be removed from the Reusable Container asset register.

At the time of expiry of the Contract, or on termination of Contract before its expiry, the Department shall be entitled to (but not required to) take over ownership of all Reusable Containers against payment to the Contractor. Such payment to the Contractor shall be the depreciated value of each Reusable Container, using the tendered Replacement Cost as the initial value, with a linear depreciation over 5 years and a residual value after 5 years of 20% of the Replacement Cost.

Tenderers are also referred to Section 18.7 on Remuneration for lost Reusable Containers.

7.2 Maintenance of Reusable Containers

The Contractor shall ensure that Reusable Containers supplied to the Facilities are at all times suitable for collection and transportation of Waste. Reusable Containers supplied to the Facilities shall be fully functional and without visible cracks or excessive surface wear. All wheels (and brakes where applicable) on Reusable Containers must be fully operational.

The Facilities shall have the right to reject a Reusable Container if it is not properly maintained or properly cleaned and disinfected.

Supply of a Reusable Container which does not comply with these requirements shall constitute a Service Failure.

The Contractor shall not be responsible for the maintenance of Reusable Containers that have been severely damaged and for which the Department has paid for the Replacement Cost.

7.3 Managing supply of Reusable Containers

The Contractor shall at all times ensure that the Facilities have sufficient supply of Reusable Containers. It is the Contractor's responsibility to estimate and monitor each facility's need for reusable containers. Should a Facility experiences a shortage in the supply of Reusable Containers, the Contractor will be notified and if the Contractor fails to abate the shortage within 24 hours from the time of notice, it shall constitute a Service Failure.

The Contractor shall deliver Reusable Containers to a storage area nominated by the respective Facilities. Such storage areas could be the Waste Collection Point, provided that provision is made to prevent disinfected containers from becoming contaminated by the presence of full containers.

7.4 Tracking system for Reusable Containers

The Contractor shall provide an appropriate tracking system to ensure that at any time during the Contract Period records exist of all Reusable Containers in the care of any particular Facility, or alternatively of Reusable Containers delivered to the Treatment Plant.

In order to save time during data recording on delivery of empty containers or during collection and mass recording of full containers, it is a requirement for an electronic identification system to be used, which could either be a bar-coded system, a transponder system or similar approved. Irrespective of the system used, it is to be ensured that all data recorded is verifiable by the HCW Officer or its representative. The requirement of container marking as described below, is however still to be adhered to even though an electronic recording system will be used, for identification by the Facility during internal use where scanners or similar equipment is not available.

Each Reusable Container shall have a unique identification code. The identification code shall be placed visibly on the outside of the container. The visible representation of the code shall be permanent and durable and shall be resistant to any tear and wear sustained during the Contract Period. The identification code shall be made up of numbers and/or letters.

The tracking system shall as a minimum ensure that a receipt signed by the Contractor and the Waste Officer, is issued every time Reusable Containers are delivered to a Facility or Collected from a Facility. A copy of the receipt shall be submitted to the Waste Officer, or it's representative, at the time of collection and delivery.

The Contractor shall ensure that the Treatment Plant shall register each Reusable Container at the time when it arrives at the Treatment Plant. The registration shall contain information on the identification code of the Reusable Container, its time of arrival as well as the waste category it contains.

The Treatment Plant shall on a monthly basis issue a certificate stating the identification code of the containers received, the contents Treated and the time of Treatment.

Tenderers are further referred to Section 15 on Communication.

All reusable container delivery sheets shall be triplicate carbonised copies or similar approved.

7.5 Disinfection of Reusable Containers

The Contractor shall ensure that Reusable Containers are washed, disinfected and dried immediately after it has been emptied. Annexure 3 describes the requirements for washing and disinfection of Reusable Containers.

Preference is to be given to automated bin washers that can handle both Type A and Type B Reusable Containers.

7.6 Storage of Reusable Containers

The Contractor shall provide suitable storage facilities at the Treatment Plant for the separate storage of contaminated and disinfected Reusable Containers. The Contractor shall ensure that the storage areas will not allow contamination of disinfected containers between the time of disinfection and the time of collection for distribution to the respective Facilities. The Contractor shall further ensure that the storage facilities are well secured with suitable access control, to prevent access to the Reusable Containers by unauthorised persons.

8 Collection of the Waste

The Facility is responsible for the collection and the internal transport of the containerised Waste, from the wards and units, to the Waste Collection Point.

The Contractor shall ensure that no Waste is left unattended between the time when it is removed from the Waste Collection Point and the time when it was delivered to the Treatment Plant.

The Contractor shall collect Waste from the Facilities in accordance with the Collection Programme. The Contractor shall notify the affected Facilities and the Department's Representative of changes

to the Collection Programme, 1 week prior to such changes taking effect. The Contractor shall at all times ensure that the Department's Representative as well as the respective Facilities are provided with the latest reversion of the Collection Programme.

Waste collection rounds shall be undertaken between 8:00 and 15:00 on agreed days of the week. Waste collection outside of the aforesaid hours shall only be permitted if the Contractor agrees with the Facility in writing, provided also that the Department's Representative has been informed in writing of this agreement.

In order for the Waste collection vehicle drivers to communicate with Facilities on any delays in collection times that may result from breakdowns or emergency situations, it will be expected for Waste collection vehicle drivers to be in direct communication with Facilities or alternatively through its head office. Communication systems will be required on all Waste Vehicles and could be in the form of cellular phones, two-way radios or similar approved.

8.1 Waste Collection Point

The Waste Collections Point designates the point at each Facility from where the Contractor takes responsibility for the Waste. The Contractor shall as part of the Rollout, in cooperation with each Facility, establish the location of the Waste Collection Point(s). Facilities may due to its size have more than one Waste Collection Point.

The Waste Collection Point will generally be a storage room at the Facility, to which Facilities are to deliver the Waste in Reusable Containers. Mortuaries will generally be the Waste Collection Points for Pathological Waste at the Hospitals. The Contractor shall during the Mobilisation Period liaise with each Facility and establish the location of the Waste Collection Point(s), make arrangements for Waste collection personnel to gain access to such Waste Collection Points, make arrangements for the installation and securing of scales (where applicable) and agree on the mass recording verification process to be followed, in accordance with this Project Specification during each collection round.

The Waste shall become the Contractor's responsibility once it has been removed from the Waste Collection Point.

The Contractor shall submit a list, to the Department's Representative of all Waste Collection Points agreed with the Facilities, no later than 2 weeks before Commencement of Services Date. Where any difficulties in terms of access to the proposed Waste Collection points may have been identified, such problems are to be reported without delay to the Department's Representative in writing. Based on such a report, the Department may in consultation with the Facility (i) identify an alternative Waste Collection Point, or (ii) make the necessary modifications that will ensure reasonable unobstructed access enabling collection of Waste.

The Contractor shall be responsible for removing any Waste spillage at the Waste Collection Point that may have been caused by the Contractor. Failure to immediately remove spillage from the Waste Collection Point shall constitute a Service Failure.

8.2 Storage of Waste

The Waste can for a limited period of time be stored at the Waste Collection Point in order to make collection and transport cost effective. The Contractor shall however ensure that the following maximum storage times are not exceeded:

- General Infectious Waste, maximum storage time 7 days;
- Pathological Waste, maximum storage time 7 days if kept refrigerated at or below -2 degree C, otherwise 24 hours;
- Sharps including long sharps, maximum storage time 60 days.

By storage time shall be understood the time from when the Waste is placed at the Waste Collection Point by the Facility, until it is removed from the Waste Collection Point by the Contractor.

Exceeding the maximum storage times listed above shall constitute a Service Failure.

The Contractor shall ensure that no Waste is stored overnight between the time when it is removed from the Facility and the time when it is delivered to the Treatment Plant. This means that delivery of Waste by the Contractor to the Treatment Plant shall take place on the same day that the Waste is removed from the Facility. Failure to deliver Waste to the Treatment Plant the same day it has been removed from the Waste Collection Point shall constitute a Service Failure.

8.3 Frequency of Waste Collection

In addition to the requirements that maximum Waste storage times that are not to be exceeded, the Contractor shall observe the following minimum frequencies for Waste collection:

Type of Facility	Collection Frequency
Hospitals with more than 1000 beds.	Daily Collection, including weekends and public holidays.
Hospitals with less than 1000 beds.	Daily Collection, except weekends and public holidays.
Community Health Centres.	As determined by the maximum Waste storage times.
Clinics.	As determined by the maximum Waste storage times.

8.4 Weighing of the Waste

The Contractor shall provide a suitable scale for weighing of Waste at the time of collection from each Facility.

8.4.1 Hospitals

For each of the Hospitals, the Contractor shall procure, install and maintain a permanent load cell scale capable of weighing the Reusable Containers. The scale shall be installed at or near the main Waste Collection Point. The Facility shall provide a lockable room and a permanent power supply for the scale. The scale shall be approved for commercial use, and shall be calibrated by an independent and accredited party as required by the Necessary Consents and Statutory Requirements.

Ownership of the load cell scale installed at Leratong Hospital by the Department will be transferred to the Contractor on the Contract Date. The Contractor will thereafter be responsible for the maintenance and calibration thereof, similar to all other scales to be provided by the Contractor.

8.4.2 Clinics and Community Health Centres

The Contractor shall for the Clinics and Community Health Centres provide a mobile scale for Weighing of the Waste. The scale can be of the spring type, but shall be capable of weighing one Type A Reusable Container at a time. The scale shall be approved for commercial use, and shall be calibrated by an independent and accredited party as required by the Necessary Consents and Statutory Requirements.

8.4.3 Calibration of Scales

All scales used for weighing the Waste shall be approved for commercial use, and shall be calibrated by an independent and accredited party as required by the Necessary Consents and Statutory Requirements.

The Waste Officer shall have the right to verify calibration of the scale. If this verification indicates an error with more than 1%, the Department shall be entitled to demand calibration of the scale by an independent and accredited party as required by the Necessary Consents and Statutory Requirements.

8.4.4 Weighing discrepancies

The weighing of the Waste performed at the Facility under the supervision of the Waste Officer shall form part of the basis for payment for the collection, transport, Treatment and disposal of Waste. If the Contractor detects a discrepancy of more than 2% between the scale used at the Facility and the Contractor's scale at the Treatment Plant, with such discrepancy being observed on more than one occasion, the Contractor shall immediately inform the Department's Representative about the possible causes for the discrepancy as well as the Contractor's recommendations on the way in which the problem is to be rectified.

To minimise the risk of human error during mass data recording when Waste is collected from Facilities, preference is to be given to the electronic recording and transfer of data, provided that verification and authorisation of the recorded masses can still be done by the HCW Officer or its representative.

8.5 Recording of Waste collected

The Contractor shall as part of the Services implement a recording system that will form part of the basis for payment of services rendered.

For each consignment of Waste collected the Contractor shall issue a recording sheet containing information on:

- Identification numbers of Reusable Containers collected;
- Type (volume) and net weight of each Reusable Container;
- Waste categories, i.e. General Infectious Waste, Pathological Waste or Chemical Waste;
- Time and date of collection;
- Driver details;
- Details of Facility representative witnessing Waste collection;

The recording sheet shall be issued in triplicate at the time and place of Waste collection, with each copy signed by the Waste Officer and the Contractor. One signed copy of the Recording Sheet shall be retained the Waste Officer before the Contractor leaves the Facility.

The Contractor shall record the collection and Treatment of Waste from each Pathological Waste container, after which a report is to be issued to certify Treatment of such Pathological Waste. The aforesaid report is then to be submitted to the Waste Officer at that Facility, before the end of the calendar month in which the Pathological Waste was Treated.

All waste collection recording sheets shall be triplicate carbonised copies or similar approved.

8.6 Pathological Waste at Clinics

With the Clinics generating limited amounts of Waste, the Waste collection frequency from the clinics can be less than that of the Hospitals. As this can result in maximum storage time for placentas and other pathological waste being exceeded, e.g. at Clinics with a maternity ward, or alternatively result in uneconomical high Waste collection frequencies from these Clinics, the Contractor will have the option of supplying Clinics with maternity wards with freezers that can be used to store placentas if daily collection of placentas is not preferred. The freezers shall have a volume of 100 litre to 150 litre and shall be capable of maintaining temperatures from +0 degrees C to -12 degrees C. The freezer shall be equipped with a lock for which only the Contractor's staff and the Clinic's Waste Officer shall have keys.

Throughout the Service Period, the Contractor shall maintain ownership of the freezers and will be responsible for all maintenance and repairs thereof. No additional payment will be made either for the supply of freezers, or for the increased collection frequency required to ensure the timely Treatment of Pathological Waste generated at Clinics.

The Contractor must at the time of collection arrange for removal of all filled and sealed pathological waste containers from the Freezer.

8.7 Collection of Extraordinary Items

Collection of Extraordinary Items shall be arranged in consultation with the Facility, once the Department notified the Contractor of the existence of such Extraordinary Items at any particular Facility. The Contractor shall collect Extraordinary Items for transport, Treatment and disposal thereof in accordance with these Project Specifications.

The Contractor shall issue a separate invoice for handling of Extraordinary Items, providing a detailed breakdown of costs for the collection, transport treatment and disposal thereof.

8.8 Mobile Clinics

The Contractor shall collect, transport and Treat Waste from mobile Clinics in the Region. Mobile Clinics start and finish the day at a regular Clinic. Waste from a mobile Clinic shall be handled together with the Waste from the regular Clinic to which the mobile Clinic is associated.

9 Transport

9.1 Requirements for transportation

The Contractor shall transport all Waste from the Waste Collection Points at the Facilities to the Treatment Plant.

The Contractor shall at all times observe the required health and safety measures and shall avoid spillage of Waste. In the event of spillage occurring, it shall immediately be removed by the Contractor. Failure to remove any spillage immediately constitute a Service Failure.

The Contractor shall, when transporting both disinfected and filled Reusable Containers in the same vehicle, ensure that disinfected Reusable Containers do not become contaminated through contact with filled Reusable Containers.

9.2 Requirements for the Waste Vehicles

The Contractor shall procure Waste Vehicles for transportation of Waste. Waste Vehicles used by the Contractor to transport Waste shall be for the sole purpose of transporting Waste and may not be used for any other purposes.

All Waste Vehicles shall comply to meet the standards laid down by the National Road Traffic Act (Act 93 of 1996), as well as any Necessary Consent.

Access to the Waste Vehicle's loading compartment shall be safe and unobstructed, thus ensuring easy access for the Contractor's staff. Lifting tailgates are to be used for the loading and offloading of Reusable Containers from Waste vehicles.

Storage compartments on Waste Vehicles shall not have any holes or openings that could result in leaking of liquids that may accidentally have spilt from containers.

The inner surface of the Waste Vehicle's storage compartment shall be smooth and rust free by being galvanised, manufactured from stainless steel or covered by zinc or other materials approved by the Competent Authorities. The internal finish of the storage compartment shall further allow for easy cleaning, e.g. angles shall be rounded and surfaces shall be smooth, without any material joints creating the opportunity for dirt collection.

There shall be a bulkhead between the drivers cabin and load compartment, designed to retain the load, in order to protect the driver, should the vehicle be involved in an accident.

There shall be a suitable method for fastening the closed Reusable Containers, thus reducing the risk of spills and ensuring that there is no sudden movement of the Waste.

All Waste Vehicles shall be equipped with emergency equipment required by the Necessary Consents. This equipment shall as a minimum include spill kits containing all personal protective equipment like masks, gloves and overalls, as well as folded Waste containers, brooms, scoops and disinfectants, together with fire extinguishers. The staff shall be familiar with the emergency procedures whilst also trained in the effective use of such emergency equipment.

Waste Vehicles shall have means for separating the disinfected Reusable Containers from Reusable Containers filled with Waste.

10 Treatment of the Waste

The objective of Treating Waste is to deactivate the viruses, bacteria and other pathogens in the Waste to a safe level where there is no risk of infection or other negative health impacts to humans.

The Treatment of Waste shall further prevent any intentional or unintentional reuse of objects such as syringes, sharps etc. by completely or partly destroying these objects and rendering it harmless to humans.

The Contractor shall Treat the Waste from all Facilities in the Region in accordance with the Regulations and the Necessary Consents.

No Waste collected under this Contract shall be Treated outside Gauteng, except during an Unplanned Outage and subject to the written consent of the Department.

10.1 Requirements for Treatment

Treatment is not required for Chemical Waste, provided that it is disposed of at a hazardous waste landfill in accordance with the Regulations and the Necessary Consents.

Waste other than Pathological Waste and Chemical Waste, shall be Treated by means of either Controlled Combustion Treatment or Non-Combustion Treatment.

Pathological Waste shall only be Treated by means of Incineration Treatment.

10.2 Handling and storing of Waste at the Treatment Plant

The Contractor shall use a hydraulic device for unloading the contents of the Reusable Containers at the Treatment Plant. The procedures and equipment for unloading the Waste shall be designed to minimise the manual handling required.

The Contractor shall ensure that Pathological Waste is Treated within 24 hours after it has been collected from any Facility. Waste other than Pathological Waste shall be Treated within 48 hours after it has been collected from any Facility.

10.3 Waste Storage during a Planned Outage

The Contractor shall during a Planned Outage secure the use of cold storage facilities suitable for the storage of Waste until the Planned Outage is over, or alternatively secure standby Treatment capacity at another treatment facility and Treat the Waste timely in accordance with this Project Specification, the Regulations and the Necessary Consents.

11 Residues disposal

The Contractor shall be responsible for the disposal of all Residues from the Treatment of Waste. The Residues shall be disposed of in accordance with the Necessary Consents and the Statutory Requirements.

The method of transportation of the Residues selected by the Contractor shall be compatible with the type of Residues generated to ensure that no danger, nuisance or inconvenience is caused to people at or near the Treatment Plant, along any of the transportation routes or at the landfill used for disposal of the Residues. The Contractor shall ensure that the transportation and disposal of the Residues is conducted in accordance with Good Engineering and Operating Practices.

The Contractor shall meet all costs associated with the transportation and disposal of the Residues.

The Contractor shall obtain a certificate from the operator of the landfill used for disposing of the Residues, stating the time, date and mass of Residues delivered to the landfill.

12 Training and Consultancy Support

The Contractor shall in its interface with the Facilities provide a Training Programme and consultancy support, with the purpose of enhancing safe and effective Segregation of the HCW. The Training Programme shall comply with these Project Specifications and with the Training Programme. The Training Programme and the Consultancy Support shall be provided in accordance with the specifications in Annexure 4 [Specifications for Training Programme and consultancy support].

13 Mobilisation and Rollout

13.1 Mobilisation

Following the award of Contract the Contractor shall use the Mobilisation Period to mobilise its staff, as well as acquire the necessary equipment and supplies. The Mobilisation Period shall further be used by the Contractor to establish communication lines with each of the Facilities as well as with the Regional Office and the Head Office of the Department.

The Contractor shall liaise with the Waste Officer from each of the Facilities during the Mobilisation Period and agree on the programme for implementation of the new Waste Management System at the respective Facilities.

13.2 Rollout Period

The Contractor assumes responsibility for removing, treating and disposing of the Waste from the Commencement of Services Date. The first 4-months following the Commencement of Services Date is designated the Rollout Period.

The Contractor shall during the Rollout Period gradually phase in the new Waste Management System at all the Facilities.

It is envisaged that a dual system will be operated during the Rollout Period, where disposable cardboard and plastic containers provided by the previous contractor shall be used in some Facilities whilst the new Waste Management System is rolled out and maintained in other Facilities.

The new Waste Management System shall be fully implemented at all Facilities in the Region by the Rollout Completion Date. Failure to achieve full implementation by the Rollout Completion Date shall constitute a Service Failure. The new Waste Management System shall be deemed to be fully implemented when all Waste is collected and transported in Reusable Containers.

13.3 Dual system operation during the Rollout Period

While phasing in the new Waste Management System, the Contractor shall be responsible for collecting, transporting, Treating and disposing of all Waste generated at the respective Facilities in

the Region. This will require that the Contractor operate the old waste management system in parallel with the new waste management system during the Rollout Period.

On commencement of the Rollout Period, the Department would have paid the previous contractor for supply of Sharps Containers, Specican Containers and disposable cardboard boxes. The new Contractor is therefore to make best use of this stock of containers, ensuring that the maximum number of containers supplied by the previous contractor is used for Segregation and removal of Waste during the Rollout Period.

The dual system to be operated during the Rollout Period will therefore require for disposable cardboard and plastic containers provided by the previous contractor to be used in some Facilities, whilst the new reusable container system is rolled out and maintained in other Facilities. Once all disposable cardboard or plastic containers supplied to a particular Region by the previous Contractor is consumed, the new Contractor will be required to continue the supply of the previous disposable cardboard and plastic container system in Facilities where the reusable container system was not yet implemented, until such time that the new Waste Management System is fully implemented at all Facilities.

At the start of the Rollout period, the Contractor shall take stock at all Facilities of the disposable cardboard boxes, Sharps Containers and Specican Containers that remained from the previous contractor. When the new Waste Management System has been implemented in any of the Facilities, the Contractor is to take the remaining stock of Sharps Containers, Specican Containers and disposable cardboard boxes, from that Facility and supply it to Facilities that are still using the old waste management system as part of the dual system.

Should the existing stock of Sharps Containers, Specican Containers and disposable cardboard boxes at any of the Facilities be insufficient for the duration of the Rollout Period, the Contractor will be required to procure such Sharps Containers, Specican Containers and disposable cardboard boxes for supply to the Facilities where the new Waste Management System is still to be rolled out, all in accordance with their respective needs.

The Contractor shall ensure that each Facility experiences a swift transition from the old to the new Waste Management System. The Contractor will only be permitted to run a dual system at Facility level during the Implementation Period.

The duration of the Implementation Period shall be minimised for each Facility and shall not exceed:

- For Hospitals: 3 weeks
- For Community Health Centres and Clinics: 1 week.

13.3.1 Rollout Plans

A Regional Rollout Plan is covering all facilities on macro / regional level, indicating how the process will be executed over the 4-month Rollout Period, and when the various Facilities can expect to become involved in the Rollout process. The Regional Rollout Plan is to be approved by the DoH Head Office and Regional Offices, as it will impact on the region as a whole. If no comments were received within 10 working days from submission of any Regional Rollout Plan, it will be assumed that the plan was approved as is.

The Facility Rollout Plan on the other hand is addressing the detailed needs of individual Facilities during its rollout and is providing information on what can be expected on a day-by-day basis. The Facility Rollout Plan is therefore to be approved by individual Facilities, as it will have a direct impact on the latter. If no comments were received within 10 working days from submission of any Facility Rollout Plan, it will be assumed that the plan was approved as is. Proforma outlines for Regional Rollout Plans as well as Facility Rollout Plans will be made available to successful tenderers on request.”

The Contractor shall develop a Regional Rollout Plan for the Rollout Period inter alia containing the following:

- Names and contact details of Waste Management Officers from each Facility;
- Programme for the Rollout Period, specifying for each Facility the dates for the start and completion of the Rollout;
- Details on number and types of Reusable Containers that is to be supplied to and deployed in each Facility;
- Details on number and types of Durable Items that is to be supplied to and fitted in each Facility;
- Type of mass recording system to be implemented and/or installed for each Facility;
- Specifications for the Training Programme and consulting activities to be undertaken at each Facility in the Rollout Period;
- Details of the Contractor’s staff, that will be responsible for the Training Programme and consulting activities;
- Details of container delivery and waste collection procedures, including data collection, recording and tracking system;
- Details of Facility specific problems and opportunities encountered during the planning of the Rollout Period together with proposed solutions;
- Development of site-specific backup procedures and emergency plans for implementation inter alia in the event of vehicle or plant breakdowns or accidents;
- Details of Facility specific problems and opportunities encountered in the planning of the Rollout Period together with proposed solutions.

In addition to the Regional Rollout Plan, Facility Rollout Plans with more detailed information is to be developed for each of the respective Facilities. The purpose of the detailed Facility Rollout Plans is not only to ensure that the Contractor undertakes sufficient and accurate planning, but also to ensure that the Facility is in agreement with the detailed Facility Rollout Plan. To ensure that staff will be available at the respective times indicated for training in the programme, it is important that the Facility Rollout Plans be developed in consultation with the respective Facilities, after which it is to be approved by the CEO of that particular Facility. The Facility Rollout Plan shall be deemed approved by the CEO if the Contractor has not received a response from the CEO within 10 working days after submitting the Facility Rollout Plan to the CEO.

The Regional Rollout Plan shall be submitted to the Department’s Representative no later than 1 month after the Contract Date. Implementation of the Rollout Plan shall be subject to the Department’s approval of the Plan. The Rollout Plan shall be deemed approved by the Department if the Department fails to respond to the Contractor within two weeks of receiving the proposed Rollout Plan. Failure to submit the Regional Rollout Plan before the date occurring one month after the Contract Date is considered to be a Service Failure.

Facility Rollout Plans are however subject to change as information is gained from the first Rollout exercises, which make the requirement for the latter only to be submitted 2 weeks before the start of the Rollout at any particular Facility.

13.4 Rollout at each Facility

The Contractor's obligations during Rollout at each Facility shall comprise:

- Liasing with Waste Officers and Facility management to keep them informed of plans, programmes and progress throughout the Rollout Period;
- Installation of Durable Items for Disposable Containers in the wards, on nursing trolleys etc, as agreed in writing by the Waste Officer;
- Implementation of the Training Programme;
- Supply and installation of freezers where applicable;
- In cooperation with the Waste Officer ensure that an appropriate Waste Collection Point is available. The Contractor shall where necessary, suggest any modifications or installations that may be required at the Waste Collection Points in order for the Contractor to fulfil its obligations;
- Submitting to the Waste Officer, with a copy to the Department's Representative, a programme for the collection of the Waste from the Facility. The programme shall specify the specific weekdays and approximate times on which Waste is to be collected;
- Supply and installation of scales where applicable;
- Supply and deployment of Reusable Containers;
- Supply and monitoring of distribution of Disposable Containers;
- Implementation of waste recording and tracking systems;
- Undertaking trial runs on container delivery and waste collection procedures, including testing of data collection, recoding and tracking system from the point of generation to the point of treatment;
- Undertaking trial runs on Waste collection, transport and deliveries to the Treatment Plant, including cleaning, disinfection and return of Reusable Containers;
- Evaluating test results and making any amendments that may be required before final implementation of the new Waste Management System;
- Stocktaking of disposable cardboard boxes and plastic containers on final implementation of the Reusable Container system;
- Transfer of remaining disposable cardboard boxes and plastic containers to Facilities where the Rollout has not been completed, once it is ensured that no backup stock of disposable cardboard containers will be required any longer;
- Testing of site-specific backup procedures and emergency plans developed for implementation inter alia in the event of plant or vehicle breakdowns or accidents.

13.5 Consultancy during the Rollout Period

The Contractor shall, as part of its responsibilities during the Rollout Period, perform the following Consultancy activities:

- Survey each Facility to determine quantities and types of Durable Items, Disposable Containers as well as Reusable Containers needed;
- Identify a mechanism to ensure the distribution of new equipment at each Facility and to ensure adequate stock levels including that of Reusable Containers;

- Promote the Gauteng Code of Practice for HCW management;
- Ensure that decisions taken reflect the standards laid out in the Gauteng Code of Practice for HCW management through a consultative process;
- Ensure that all new equipment is properly positioned and used;
- Assist Facilities to determine appropriate internal collection routines for high and low risk areas;
- Advise Facilities on the use of intermediate and central storage areas, as well as any modifications or upgrading of such stores that may be required;
- Liase with the Facilities regarding waste collection times and Disposable Container delivery times (if different) by the Contractor;
- Provide support with the introduction of mass measurement for Waste as well as data recording for billing and Waste tracking respectively;
- Advise on specifications for other equipment to be acquired by Facilities such as Personal Protective Equipment (PPE) and additional liners;
- Set up regular internal performance and equipment monitoring programmes for implementation by health care workers;
- Advise Facilities on HCGW management matters in as far as it will impact on Waste management.

14 Handover of services

When the Contract Period is approaching its end, the Contractor shall liase with the Department's Representative and the new contractor that will take over the Contractor's responsibilities, with the objective of ensuring a smooth and efficient transition of responsibilities to the new contractor.

The Handover Period is the last 2 months of the Contract Period.

The Contractor shall during the Handover Period liase with the Facilities and ensure that available stocks of Disposable Containers are no more than one month's normal consumption for each individual Facility.

The Contractor shall, no later than the first day in the Handover Period, submit the following to the new contractor:

- Lists with names and contact details of all Waste Officers for the respective Facilities in that particular Region;
- Lists with details on all Waste Collection Points;
- Most recently updated Collection Plan;
- Details of route planning for the Contractor's Waste Vehicles;
- Inventories of types, sizes and numbers of Reusable Containers deployed in each Facility;
- Inventory of types and numbers of Durable Items deployed in each Facility;
- Statistics on average monthly consumption for each of the different Disposable Containers and Reusable Containers supplied to the respective Facilities.

15 Communications

15.1 Meetings

Weekly Project Meetings will be held between the Department's Representative and the Contractor during the Rollout period, where after the Project Meetings between the Department's Representative and the Contractor will be held monthly (or as agreed) for the remainder of the Contract Period.

Should either party require any meetings in addition to the Annual Project Meetings, such meeting shall be convened by giving, unless otherwise agreed, at least 1 weeks' prior written notice to the other party. The Contractor shall at all meetings be represented by persons suitable qualified and authorised to make commitments and enter into agreements on behalf of the Contractor. If the Contractor fails to attend or be appropriately represented at a project meetings it shall constitute a Service Failure.

15.2 Reporting

The requirements for reporting to be fulfilled by the Contractor shall comprise preparing and delivering to the Department's Representative:

- Copies of all reports required by the Necessary Consents;
- Annual Reports;
- Monthly Reports;
- Incident Reports;
- Waste Information Reporting.

Note: Waste Information Reporting shall be in accordance with the "Gauteng Health Care Waste Management Regulations" as well as the "Gauteng Waste Information Regulations", as Gazetted on 11 September 2003.

15.2.1 Annual Report

An Annual Report, primarily consisting of a summary of the monthly reports, is to be prepared and delivered to the Department's Representative. The following is to be used as an outline of the issues to be addressed in annual reports, where it was not already included in the monthly reports."

The Contractor shall ensure that each Annual Report shall, at minimum, contain the following information:

Special events (events that have influence on the Contractor's obligations), i.e.

- Failures by the Department or other parties, e.g. late payments;
- The Contractor's Services Failures including the summary of Penalties imposed during the relevant year.

Organisation:

- Key Personnel;
- Other staff;
- Subcontractors;
- Suppliers;
- Changes in organisation.

Health and Safety:

- Summarised outcome of medical examinations undertaken on staff;
- Vaccination programme;
- Antiretroviral treatment programme;
- Accident report and measures taken to prevent a reoccurrence thereof;
- Supply and usage of Personal Protective Equipment (PPE);
- Compliance with South Africa's OHS Act.

Operational report:

- A record of the Durable Items installed and maintained for each of the Facilities;
- A record of the Disposable Containers delivered with information on type and numbers for each Facility;
- A record of the Waste collected with information about weight and volume for each Waste category collected from the various Facilities in the Region, as well as details on the destination of the Waste;
- Graphs indicating container supply trends on a monthly as well as an annual basis (based to all previous information generated under this Contract);
- Graphs indicating Waste generation trends on a monthly as well as annual basis (based to all previous information generated under this Contract);
- A record of the various Waste categories treated and Treatment Plants used with information about mass and volume for each type of Waste and destination of the Residues;
- Graphs indicating treatment trends on a monthly as well as an annual basis for each Waste Category (based to all previous information generated under this Contract);
- Waste generation rates per patient-day;
- Management of specialised waste streams, e.g. Pathological Waste, Chemical Waste, Extraordinary Items, etc.;
- Overview of strengths and weaknesses in Disposable Container ordering and delivery system;
- Overview of strengths and weaknesses in maintenance and supply of reusable containers;
- Overview of strengths and weaknesses in waste collection and transport;
- The Contractor's Services Failures including a summary of Deductions imposed during the year under consideration;
- Operational failures by interfacing parties like subcontractors and suppliers;
- Operational failures by the Department, e.g. late payments;
- Operational failures by Facilities, e.g. overloading of containers.

Financial Report:

- A financial review of expenditure during the previous year broken down according to different Facilities, different components of services, cost per patient-day, etc.;
- Price Adjustment Factors during the previous year;
- Advice on actual and anticipated cash flow for each Facility.

Environmental Report:

- Documentation of compliance with the Regulations by means of verified documentation.

The annual report shall be submitted to the Department's Representative in final draft no later than 1 month after expiry of the previous calendar year. The first Annual Report shall cover the period

from Commencement of Services Date to the end of the calendar year in which the Commencement of Services Date occurs.

15.2.2 Monthly Report

The Contractor shall prepare and issue a Monthly Report, which shall be submitted electronically to the Department and to the Department's Representative and in original by courier/mail to the same. In case of deviations between these two versions, the original submitted by courier/mail shall prevail.

Each Monthly Report during the Services Period shall cover one Month, and start on the 1st day of such month. The first Monthly Report shall cover the period from the Commencement of Services Date up to the end of the calendar month in which the Commencement of Services Date occurs.

In any event each Monthly Report shall inter alia include:

- A record of the Durable Items installed and maintained for each of the Facilities;
- A record of the Disposable Containers delivered with information about type and quantity for each Facility;
- A record of Reusable Containers delivered with information about type and quantity for each Facility;
- A record of the Waste collected with information on weight and volume for each category of Waste collected from the various Facilities, as well as the destination of such Waste;
- A financial review to include cash flow for each Facility;
- Advice on problems encountered specifically as they relate to the standards and quality of Services;
- Advice and directives required from the Department and/or the Department's Representative;
- A summary of incident reports submitted during the previous month, as well as the measures taken to rectify the situation and to prevent a reoccurrence of such incidents;
- Any health and safety matters;
- Any environmental matters.

The Monthly Report shall be attached to the invoice for the Monthly Waste Collection Payment for the month to which such Monthly Report relates.

15.2.3 Incident Report

Incident reports shall be issued by the Contractor to the Department's Representative in the event of any emergency leading to accumulation of Waste at any Facility or Treatment Plant, other events that affect the obligations of the Contractor or the Department under this Contract, as well as health and safety related incidents.

The contents of incident reports cannot be foreseen at this stage but the purpose of each incident report shall be to keep the Department's Representative fully updated and informed of all activities and actions concerning the emergency. Incidents reports will further be used for immediate and detailed reporting on any accidents that impacted on the health and safety of people, as well as environmental situations that created a risk of pollution.

Incident reports shall be forwarded in electronic form to the Department's Representative by no later than noon the following day, with hard copies formally submitted within 7 days thereafter.

15.3 Inspections

The Contractor shall at all times provide the Department's Representative and/or any Waste Officer, with adequate and prompt assistance in the execution of their duties of monitoring and inspecting the Service delivery. To this end experienced personnel shall be available on request to assist the Department's Representative and/or Waste Officer. The Contractor shall also provide the Department's Representative or any Waste Officer, with safe access for inspection of any location or vehicle used by the Contractor to render the Services.

The Department's Representative as well as the Waste Officers shall act reasonably and coordinate their activities with the Contractors routine wherever appropriate and possible.

16 Backup arrangements

Without prejudice to any other obligation or liability of the Contractor under this Contract, if at any time during the Services Period the Contractor is prevented from processing Waste at the Treatment Plant due to the occurrence of an Unplanned Outage, then the Contractor shall invoke the backup arrangements in the period from the date of commencement of the Unplanned Outage until the date and time of cessation of such Unplanned Outage.

The backup arrangements shall ensure that Waste is stored in a manner avoiding odour problems as well as health and safety hazards and in accordance with the Necessary Consents, by:

1. Procuring the use of cold storage facilities that are suitable for the storage of Waste, with the purpose of storing the Waste until the cessation of the Unplanned Outage, or by;
2. Procuring the use of an alternative treatment facility until the cessation of the Unplanned Outage.

An Unplanned Outage with a duration exceeding 2 weeks will be considered to be a Service Failure. An Unplanned Outage occurring less than 3 months after the previous Unplanned Outage shall constitute a Service Failure regardless of the duration of such Unplanned Outage.

The Contractor shall further prevent a backlog in the supply and delivery of Reusable and Disposable Containers, as well as prevent a build-up of Waste at any of the Facilities, due to unforeseen breakage of Waste collection vehicles, by:

1. Ensuring access to and securing the use of additional Waste collection vehicles that are in compliance with these Specifications;
2. Increasing the container delivery and Waste collection shifts to the extent that all deliveries and collection is in accordance with the approved schedule, provided that this arrangement is conveyed to and agreed by the Facilities to ensure the availability of staff at the Facilities for the verification of containers delivered and Waste collected.

The availability of backup Waste vehicles during routine maintenance of the Waste Collection fleet would not be considered justification by the Contractor for requesting increased Waste collection shifts from the Facilities.

Labour unrest or strikes shall not be considered to be reason for any shortage in the delivery of reusable and disposable containers, or any build-up of Waste at the Facilities, or alternatively any backlog in the treatment of Waste at the Treatment Facility.

The cost of making the required backup arrangements and facilities available is to be included in the unit price for the collection and treatment of HCRW and the Department will not be liable for any additional payments resulting from the provision, implementation or use of backup arrangements or facilities.

17 Health and Safety

The Contractor is to familiarise itself and comply with all safety regulations and statutes governing HCW management activities. The safety of the Contractor's personnel, its subcontractor's personnel, as well as that of Facility staff members or members of the public affected by the execution of the Services, shall be the sole responsibility of the Contractor.

The Contractor is to submit copies of its operational health and safety plan that shall be designed to ensure the health and safety of any persons involved in or affected by the management of Waste . The Contractor will be liable for any damage to property or injury to the Contractor's personnel, its subcontractor's personnel, personnel from other contractors, Facility staff members or members of the public, resulting from any activities related to the collection and removal of Waste from Facilities by the Contractor. General compliance with the stipulations of the Occupational Health and Safety Act and Regulations (Act 85 of 1993), and in particular with Section 37 (2), will be required throughout the Contract Period.

The Contractor shall in its Health and Safety Plan describe the vaccination programme that is implemented for all workers, as well as the antiretroviral treatment that will be available to workers in the event of needle stick injuries. Daily records of the Contractor's, as well as subcontractor's, employees Waste handling operations should be kept and all occupational health and safety incidents that may have been experienced during the day is to be reported, particularly with respect to any needle stick injuries or other abrasions of the skin.

The Contractor shall ensure that all employees and subcontractor's employees (whether permanent or temporary) are adequately insured. No untrained persons shall be allowed to carry out any work under this Contract.

18 Payment for Services and Supplies

In consideration of the Contractor providing the Services in accordance with the terms of this Contract the Department shall, throughout the Services Period, pay the Contractor in accordance with the provisions of Section 18.8.

The Contractor shall receive payment for the following separate items:

- Supply and distribution of Disposable Containers (by order);
- Supply, distribution and installation of Durable Items and for Disposable Containers (by order/mutual agreement);
- Collection, transport, Treatment and disposal of the Waste (monthly);
- Training activities and consultancy support (quarterly);
- Replacement of lost or severely damaged Reusable Containers (quarterly).

Invoicing shall be presented in accordance with the items and rates indicated in the Schedule of Rates and Quantities.

18.1 Supply and distribution of Disposable Containers

Disposable Containers shall be ordered by the Department's Representative and shall be invoiced by the Contractor for each order. Invoices are to be submitted to the Department's Representative once Disposable Containers were delivered to the Facilities in accordance with the relevant orders.

18.2 Collection, transport, Treatment and disposal of the Waste

In consideration of the Contractor collecting, transporting, Treating and disposing of the Waste, the Department shall pay the Contractor an amount representing the Monthly Waste Collection Payment in respect of each month.

The *Monthly Waste Collection Payment* shall be calculated as:

- (i) For each type of Reusable Container, the number of Reusable Containers Collected (converted to a volumetric figure) multiplied with the "Fixed volumetric cost for Waste" for Type A and Type B Reusable Containers respectively (Only applicable where Reusable Containers are used);

plus

- (ii) The total mass of Waste Collected, transported, Treated and disposed of, multiplied by the "Extra-over mass cost for Waste" for the respective Waste Categories as indicated in the Schedule of Rates and Quantities (Applicable for all container types);

minus

- (iii) The sum of all Penalties deductible for the relevant month (Applicable for all container types).

For all Waste collected in Disposable Containers, *Monthly Waste Collection Payment* will be based on Items (ii) and (iii) only.

All of the above is initially calculated exclusive of escalation and VAT, after which the necessary escalation and VAT adjustments will be made.

18.3 Supply, distribution and installation of Durable Items

The Contractor shall receive payment for the supply and installation of Durable Items during the Rollout Period. The cost for supply and installation of all Durable Items shall be calculated for payment to be made on a monthly basis, spread over the entire Contract period. The Contractor shall be entitled to charge interest on the value of the Durable Items for which payment is still outstanding at any given time. The interest rate shall be based on the prime lending rate of the largest commercial bank in SA.

Durable Items supplied to any Facility after the Rollout for that Facility is finalised, shall be invoiced following the delivery.

18.4 Training

Training shall be invoiced separately, each time a Training Cycle has been completed. The Invoice for a Training Cycle shall have a training report for the relevant Training Cycle enclosed.

18.5 Extraordinary items

At the request of a Facility, the Contractor shall submit to the Facility a price for removing a batch of Extraordinary Items. The price shall be reasonable and fair, and shall reflect the actual costs incurred for the Contractor to collect, transport, Treat and dispose of the particular Extraordinary Item. The Contractor shall manage the said extraordinary items regardless of whether an agreement about the price for these services were reached. Any dispute over the price for collecting, transporting, Treating and disposing of extraordinary items shall be settled in accordance with this Contract.

The Contractor shall invoice the collection, transport, Treatment and disposal of extraordinary items, separately.

18.6 Penalties

If a Service Failure occurs, a penalty equal to the amount set out opposite such Service Failure in the following table will be deducted from the relevant Monthly Waste Collection Payment, in respect of each such Service Failure when calculating the Monthly Waste Collection Payment:

Ref	Service Failure	Penalty amount (VAT and escalation excluded)
6.1	The Contractor fails to supply a Facility with Disposable Containers_ that are compliant with the Project Specification, within 2 days of the Contractor receiving an order for such Disposable Containers.	R 2 000-00 per incident.
7.3	The Contractor fails to supply a Facility with Reusable Containers, within 24 hours of the Facility or Region having notified in writing the Contractor of a shortage of Reusable Containers.	R 1 000-00 per day for Clinics, and R 3 000-00 per day for hospitals.
7.2	The Contractor supplies a Facility with a Reusable Container that is not in compliance with the Specifications for Reusable Containers.	R 1 000-00 per container.
7.2	The Contractor supplies a Facility with a Reusable Container that is not washed and disinfected in compliance with the Requirements for Washing and Disinfecting Reusable Containers.	R 2 000-00 per container.

16	The duration of an Unplanned Outage exceeds 2 weeks, or such Unplanned Outage is occurring more than once in every 3 months.	R 2 000-00 per day that the duration of the Unplanned Outage exceeds 2 weeks.
7.1	The Contractor fails to <u>immediately</u> remove a spillage at a Waste Collection or loading Point.	R 1 000-00 per incident.
8.2	The Contractor fails to remove Waste from the Waste Collection Point within the maximum allowable storage time of that waste being placed at the Waste Collection Point, or exceeding the frequency allowed for that particular Facility.	R 1 000-00 per day for clinics, and R 3 000-00 per day for hospitals.
8.2	The Contractor Fails to deliver Waste to the Treatment Plant the same day it has been removed from a Facility.	R 2 000-00 per incident.
9.1	The Contractor fails to <u>immediately</u> remove a spillage that occurred during transportation of Waste.	R 5 000-00 per incident
13.3.1	The Contractor fails to submit the Regional Rollout Plan to the Department's Representative before the date occurring one month after the Contract Date, at least addressing the issues listed in the Specification.	R 3 000-00 per day until the Regional Rollout Plan is submitted.
13.2	The Contractor fails to achieve a full implementation of the new Waste Management System by the Roll Out Completion Date.	R 2 000-00 per day until the Waste Management System is deemed fully Implemented.
15.1	The Contractor fails to attend or be appropriately represented at a project meetings.	R 5000-00 per incident.

Penalties for Service Failures will be instigated by the HCW Officer of the Facility affected by the Service Failure. Where the Contactor believe that the Service Failure for which he / she is penalised was as a result of circumstances or conditions beyond his / her control, a written submission can be made to the Department's Representative. Having investigated the matter, the Department's Representative will make a ruling on the matter as to whether the penalty will be upheld, or whether it is to be waived. Should the Contractor not be satisfied with the ruling of the Department's Representative, the Contractor has the right to take further action for dispute resolution as allowed for in the General Conditions of Tender, Contract and Order.

18.7 Remuneration for lost Reusable Containers

The Contractor shall be remunerated for Reusable Containers that are lost or severely damaged whilst in the care of a Facility. The remuneration for lost or severely damaged Reusable Containers shall be calculated once for every 3 months, based on records kept by the Contractor and verified by the Facility. A Reusable Container shall be regarded as lost by a Facility if it has been delivered to a Facility and has not been collected within a month after delivery, and shall be considered severely damaged if it is to be withdrawn from service as a result of damage, other than fair wear and tear incurred whilst in the care of the Facility.

In order to implement the above, reusable containers shall each have a unique number that is to be recorded by the Contractor and verified by the Facility during each and every delivery and collection cycle. Severely damaged containers are to be delivered to the Facility who will arrange for controlled destruction thereof.

Following the expiry of each year quarter, the Contractor shall submit to the Department's Representative an invoice in request of the number of reusable containers that were either lost or damaged to the extent that it was not repairable. Where damaged reusable containers can be repaired, the Department will only be held responsible for the cost of repairs, plus a further 10% handling fee, provided that such cost of repairs is justified when compared to the value of the reusable container.

Tenderers are also referred to Section 7.1 on Ownership of Reusable Containers.

18.8 Adjustment of prices and Penalties

Except as hereinafter provided for, the rates tendered shall be firm and binding throughout the period of the Contract.

The Contractor shall be allowed to adjust the prices of Services and supplies twice per year, i.e. at six monthly intervals. The price adjustment shall be effectuated by calculating a Price Adjustment Factor. The Price Adjustment Factor shall be calculated in accordance with the Consumer Price Index (CPI), using the Core Inflation Rate for Metropolitan Areas (CIRMA). The base date of Price Adjustment Factor shall be the Contract Date. The Price Adjustment Factor for a 6 month period shall be calculated as CIRMA on the first day of that 6 month period, divided by the CIRMA on the Contract Date. The Price Adjustment Factor shall apply to both tendered rates as well as Penalties

The Contractor shall bi-annually on every 1st day of February and 1st day of August (depending on the actual award of the contracts) in the Services Period submit to the Department's Representative a calculation of the Price Adjustment Factor to be used in the 6 months following the submission of such calculation. The Department's Representative shall respond to the calculation of the Price Adjustment Factor no later than 10 working days upon receiving it. If the Contractor has not received any response within 10 working days from submission, it shall prompt the Department's Representative for a reply. If the Contractor has not received a response 10 working following the aforesaid prompt, then the calculation of the new Price Adjustment Factor shall be deemed approved by the Department.

If the indices for the Core Inflation Rate for Metropolitan areas relevant to any particular certificate is not known at the time when the certificate is prepared, the Department shall estimate the value of such index. Any correction, which may be necessary when the correct indices become known, shall be made in subsequent payments.

Annexure 1

SPECIFICATION FOR DISPOSABLE CONTAINERS

Although Tenderers are allowed to submit indicative samples and are not required to submit actual prototypes of the Disposable Containers at the time of Tender, such samples will be used for verification of features and quality standards until such time that actual prototypes are submitted for approval after award of Contracts to successful Tenderers.

A1.1: Sharps Containers

Due to the different rates at which infected sharps are generated as well as the particular requirements for different applications of Sharps Containers, there is a need for a range of Sharps Containers to be made available to the Facilities, leaving it up to the respective Facilities to make a decision on the type of container that would best meet their particular needs.

The risk of physical injuries and infection from sharp objects used in hospitals and clinics is high, resulting in a need for Sharps Containers to meet certain minimum standards in terms of user friendliness, robustness and also the effort required for people to gain access to, or come into contact with sharps previously disposed off.

The following requirements are to be met in the supply of Sharps Containers:

A1.1.1 Range of Sharps Containers required:

1. The following generic types of Sharps Containers must, as a minimum form part of the supply made available for ordering by the Facilities:
 - (a) Type A: 1-4 litre sharps container;
 - (b) Type B: 4-8 litre sharps container;
 - (c) Type C: 8-15 litre sharps container;
 - (d) Type D: 15-25 litre sharps container;
 - (e) Type E: Tall slim sharps container with a minimum height of 600 mm and capacity of between 5 litre and 10 litre for long sharps.
2. A minimum of one Sharps Container of type B or type C must be of the horizontal loading type.

A1.1.2 Material to be used in manufacturing of Sharps Containers and mounting Brackets:

1. Sharps Containers must be manufactured from polypropylene (PP) or alternatively polyethylene (PE);
2. The material shall be puncture resistant as per the SANS Code 0248 Sharps Container requirements;
3. Ink colours and dies must be free of heavy metals;
4. Sharps Container Brackets for wall or nursing trolley mounting of containers are to be manufactured from mild steel and stainless steel respectively as indicated in Schedule of Rates and Quantities;
5. Sharps Container Brackets are to be powder coated or galvanised when manufactured from mild steel. No coating is required for stainless steel Brackets.

A1.1.3 Sharps Container design requirements:

1. Sharps Containers shall be rigid, puncture resistant, leak resistant, tamper proof and clearly marked as described below;
2. The required colour coding for Sharps Containers is yellow in accordance with SANS 0248.
3. Parts of the Sharps Container shall be fully or partially transparent to allow for assessment of level of filling or contents. Alternatively, it shall be possible to assess the degree of filling or contents through the aperture/opening;
4. Sharps Containers shall be designed to allow for disposal of needle and syringe as one unit;
5. Sharps Containers shall include apertures for the safe removal of sharps/needles from syringes/tubing etc. including "butterfly" type needles on tubes, using a one handed technique;
6. Sharps Containers shall be designed to avoid overfilling and protruding sharps;
7. Sharps Containers shall in their dimensions facilitate best possible usage of the available volume, i.e., rectangular plan cross section for parallel packed placing of syringes and other sharps are preferred to circular or oval plan cross sections;
8. Sharps Containers shall allow for nesting in the unassembled state for effective transport and storage of empty containers;
9. Sharps Containers shall be stackable in the assembled state and preferable in modular fashion for the different sizes of containers to allow for effective storage and transport of full containers;
10. The outer dimensions of the Sharps Containers shall be compatible with the inner dimensions of the Reusable Containers to ensure effective modular storage and easy release of Sharps Containers from reusable containers;
11. Sharps Containers shall allow for easy and safe assembling (e.g. fitting the lid part onto the container part of the Sharps Containers);
12. The (a) lid and (b) opening closure of a Sharps Container shall ensure that the lid and opening closure cannot be released after installation and sealing respectively through the introduction of a non-reversible sealing design;
13. Types D and E Sharps Containers shall be equipped with a foldaway handle for safe handling and transport of containers;
14. The mechanical stability of the empty as well as full Sharps Containers, when standing and whilst being moved or transported, shall be ensured for all Sharps Containers, with the exception of the Type E containers for which this requirement will only apply when standing in a static state;
15. Sharps Containers shall be designed to reduce the risk of spillage of contents in the event of tipping or dropping of Sharps Containers, preferable by an automatic obstruction of the aperture when not in the upright position.

A1.1.4 Sharp container markings:

1. A label shall be so located on the Sharps Containers as to be clearly visible when stacked with other packaging;
2. Sharps Containers shall include suitable warning signage, the international biohazards symbol and relevant UN codes as recommended by the World Health Organisation (WHO), together with the text "Infectious Sharps for Destruction" or similar text clearly readable and identifiable with a font set suitable for the type and size of the container;
3. Lettering on the label shall contrast with the background of the label, be of one size, style and layout that will result in the marking that is clearly readable;
4. The background of the label shall be of the colour that contrasts with the surface area immediately surrounding the label;

5. All text shall as a minimum be in the English language and preferably in one or more of the other official South African languages;
6. Sharps Containers shall be equipped with a maximum filling line that protects against overfilling. The placement of the max fill line shall as a minimum be 35-mm below the level of the aperture of the container;
7. The sizes of hazard labelling shall be as specified in SANS 0248:

Net volume of containers (litre)	Minimum Label Size (mm)
≤ 0,5	15 x 15
> 0,5 but ≤ 5	20 x 20
> 5 but ≤ 20	30 x 30
> 20	100 x 100

A1.1.5 Sharps Container mounting Brackets:

Note: The Sharps Container mounting Bracket designs as illustrated in Figure 2 of this Annexure are typical of those used during the pilot studies. Although Tenderers are invited to propose any alternative design, the aforesaid are indicative of the type of Brackets that will be required.

1. Sharp containers Type B, C and E should be compatible with wall mounting Brackets (Fig. A 1.1), with Type B also being compatible with Brackets that can effectively be hanged or clipped onto nursing trolleys (Fig. A 1.2) to ensure safe positioning of containers during use.
2. Brackets must as a minimum comply with the following specifications:
 - (a) Brackets must be strong and robust and have a serviceable life of at least 5-years under normal working conditions. Any Brackets that are not fully functional for the aforesaid service life are to be replaced by the contractor at any time during the contract period without any additional compensation;
 - (b) Brackets shall be grey or off-white coloured and shall be powder coated;
 - (c) Brackets shall be smooth at all surfaces and free from cutting splinters, welding residues etc. that may cause abrasions to the hand or similar;
 - (d) Brackets shall be easy to clean with no exposed areas being unreachable during usual cleaning operations.

A1.1.6 Quality control requirements:

1. Sharps Containers shall be able to pass a drop test in accordance with United Nations Recommendations on the Transport of Dangerous Goods, Chapter 6 with particular reference to paragraphs 6.1.5.3 to 6.1.5.6. The Contractor shall verify this by submitting to the Department's Representative a report on the said drop test, carried out by an independent institution like the CSIR, SABS or University.

A1.2: Specican Containers

Different applications and rates of Waste generation, will require that a range of Specican Containers be made available to the Facilities, leaving it up to the Facilities to make a decision on the type of container that would meet their particular needs best.

The risk of physical infection from blood and Pathological Waste generated in hospitals and clinics is high, resulting in a need for Specican Containers to meet certain minimum standards in terms of

user friendliness, robustness and also the effort required for people to gain access to, or come into contact with infectious Waste previously disposed off.

The following requirements are to be met in the supply of Specican Containers:

A1.2.1 Range of Specican Containers required:

1. The following generic types of Specican Containers must, as a minimum form part of the supply made available for ordering by the health care institutions:
 - (a) Type F: 8-15 litre Specican Container;
 - (b) Type G: 15-25 litre Specican Container;
 - (c) Type H: 40-70 litre sealable isolation ward container suitable for all waste from isolation wards as well as certain amputations. Type H containers must have an opening of at least 800 cm² and no side of the aperture may be less than 250 mm should the opening be rectangular/polygonal;
 - (d) Type I: 80-100 litre, 650 mm tall, 350 x 400 mm diameter that is suitable for limbs.

A1.2.2 Material to be used in manufacturing of Specican Containers and mounting Brackets:

1. Specican Containers must be manufactured from high-density polyethylene (HDPE), thus being able to withstand temperatures as low as -5° C for cold storage of pathological waste;
2. The material shall be puncture resistant in accordance with the SANS Code 0248;
3. Printing colours and dies must be free of heavy metals;
4. All Specican Container Brackets for wall mounting of containers are to be manufactured from mild steel and stainless steel respectively as indicated in Schedule of Rates and Quantities;
5. Specican Container Brackets are to be powder coated or galvanised when manufactured from mild steel. No coating is required for stainless steel Brackets.

A1.2.3 Specican Container design requirements:

Types D and E Sharps Containers shall be equipped with a foldaway handle for safe handling and transport of containers;

1. Specican Containers shall be rigid, leak resistant, puncture resistant, tamper proof and clearly marked as described below;
2. Specican Containers shall be designed to reduce the risk of spillage and ensure that any moisture or liquid is safely contained;
3. Specican Containers with lids shall be designed so that it has a two-staged closure, with the first stage preventing the emission of odours, but still allowing the Specican Container to be opened. Once the lid is however firmly closed by means of a non-reversible sealing design in the second stage, it should not be possible to be reopened;
4. Specican Containers must allow for the use of a seal that could also be used for identification, whilst providing evidence of tampering/opening;
5. The required colour coding for Specican Containers is red, with red lids when used for pathological waste;
6. Parts of the Specican Container shall be fully or partially transparent to allow for assessment of level of filling or contents, provided that this will not in any way impact on the strength or the leak resistance of the container.

7. The Specican Containers Type F and G shall in their dimensions facilitate best possible usage of the available volume, i.e., rectangular plan cross section are preferred to circular or oval plan cross sections;
8. Specican Containers shall allow for nesting in the unassembled state for effective transport and storage of empty containers;
9. Specican Containers shall be stackable in the assembled state and preferable in modular fashion for the different sizes of containers to allow for effective storage and transport of full containers;
10. The outer dimensions of the Specican Containers shall be compatible with the inner dimensions of the Reusable Containers to ensure effective modular storage and easy release of Specican Containers from Reusable Containers;
11. Specican Containers shall allow for easy and safe assembling (e.g. fitting the lid part onto the container part of the Specican Containers);
12. Types F, G, H and I Specican Containers shall be equipped with a handle for safe lifting and transport of containers;
13. The empty as well as full mechanical stability of the Specican Containers, when standing and while being moved or transported shall be ensured;
14. Specican Containers shall be designed to reduce the risk of spillage of contents in the event of tipping or dropping.

A1.2.4 Specican Container markings:

1. A label shall be so located on the Specican Containers as to be clearly visible when stacked with other packaging
2. Specican Containers shall include suitable warning signage, the international biohazards symbol as detailed in SANS 0248, together with the text "Biohazardous Waste for Destruction" or similar text in clear readable letters;
3. Lettering on the label shall contrast with the background of the label, be of one size, style and layout that will result in the marking that is clearly readable;
4. The background of the label shall be of the colour that contrasts with the surface area immediately surrounding the label;
5. All text shall as a minimum be in the English language and preferably in one or more of the other official South African languages;
6. The sizes of hazard labelling shall be as specified in SANS 0248:

Net volume of containers (litre)	Minimum Label Size (mm)
≤ 0,5	15 x 15
> 0,5 but ≤ 5	20 x 20
> 5 but ≤ 20	30 x 30
> 20	100 x 100

A1.2.5 Specican Container mounting Brackets:

Note: The Specican Container mounting Bracket designs as illustrated in Figure 2 of this Annexure are typical of those used during the pilot studies. Although Tenderers are invited to propose any alternative design, the aforesaid are indicative of the type of Brackets that will be required.

1. Specican Container Type F should be compatible with wall mounting Brackets to ensure safe positioning of containers during use.

2. Brackets must as a minimum comply with the following specifications:
 - (a) Brackets must be strong and robust and have a serviceable life of at least 5-years under normal working conditions. Any Brackets that are not fully functional for the aforesaid service life are to be replaced by the contractor at any time during the contract period without any additional compensation;
 - (b) Brackets shall be grey or off-white coloured and shall be powder coated, or similar smooth and easy to clean surface that is durable;
 - (c) Brackets shall be smooth at all surfaces and free from cutting splinters, welding residues etc. that may cause abrasions to the hand or similar;
 - (d) Brackets shall be easy to clean with no exposed areas being unreachable during usual cleaning operations;
 - (e) Wall plates for all Disposable Container brackets and baskets shall be of uniform design with a standard screw pattern that would allow for the interchange of brackets or baskets without the need for any modification to the drilled holes or wall plugs.

A1.2.6 Quality control requirements:

1. Specican Containers shall be able to pass a drop test in accordance with United Nations Recommendations on the Transport of Dangerous Goods, Chapter 6 with particular reference to paragraphs 6.1.5.3 to 6.1.5.6. The Contractor shall verify this by submitting to the Department's Representative a report from the said drop test, carried out by an independent institution like the CSIR, SABS or University.

Container Type.	Sharps Container.	Sharps Container.	Sharps Container.	Sharps Container.	Tall Sharps Container.	Specican.	Specican.	Specican.	Limb Specican.
Container Category	A	B	C	D	E	F	G	H	I
Capacity (litre)	1-4	4-8	8-15	15-25	5-10 litre. 600 mm tall.	8-15	15-25	40-70	80-100 litre. Approx. 650 mm tall, 350 x 400 mm in plan.
Minimum volume increase (litre)		3	4	7		7	15		
Material allowed for container	Polypropylene or polyethylene	Polypropylene or polyethylene	Polypropylene or polyethylene	Polypropylene or polyethylene	Polypropylene or polyethylene	High density polyethylene	High density polyethylene	High density polyethylene	High density polyethylene
Handle required.	-	-	Yes	Yes	-	Yes	Yes	Yes	Yes
Allowable material for handle.	-	-	Polypropylene or polyethylene	Polypropylene or polyethylene	-	High density polyethylene	High density polyethylene	High density polyethylene	High density polyethylene
Wall Bracket required.	-	Yes	Yes	-	-	Yes	-	-	-

Nursing trolley Bracket req.	-	Yes	-	-	-	-	-	-	-
Wall/trolley Bracket material.	-	Mild / stainless Steel	Mild / stainless Steel	-	-	Mild / stainless Steel	-	-	-
Wall Bracket coating.	-	Powder coated / galvanise	Powder coated / galvanise	-	-	Powder coated / galvanise	-	-	-
Container colour.	Yellow	Yellow	Yellow	Yellow	Yellow	Red	Red	Red	Red
Constituents <i>not</i> allowed in dye.	No heavy metals	No heavy metals	No heavy metals	No heavy metals	No heavy metals	No heavy metals	No heavy metals	No heavy metals	No heavy metals
Printing Colour.	Red	Red	Red	Red	Red	Red	Red	Red	Red
Constituents <i>not</i> allowed in ink / paint.	No heavy metals	No heavy metals	No heavy metals	No heavy metals	No heavy metals	No heavy metals	No heavy metals	No heavy metals	No heavy metals

A1.3: Liners

Due to the different rates at which Waste is generated as well as the particular requirements for different liner applications, there is a need for a range of liners as well as Baskets and Freestanding Racks to be made available to Facilities, leaving it up to the Facilities to make a decision on the type of liners, Baskets and Freestanding Racks that would best meet their particular needs. It is further required that liners, Baskets and Freestanding Racks for both Waste as well as HCGW be made available under this contract, although the Contractor would not under this contract have exclusive right for the supply of HCGW liners as well as Baskets and Freestanding Racks.

All plastic liners shall be packed and delivered in batches of 20 to allow for easy handling and internal distribution within Facilities.

The risk of infection and pollution caused by spillage is high, resulting in a need for liners to meet certain minimum standards in terms of user friendliness during handling and sealing as well as in terms of robustness.

The following requirements are to be met in the supply of plastic liners:

A1.3.1 Range of liners required:

1. Waste Liners (Red):
 - a) Type J1: 12-litres @ 40 micron thickness;
 - b) Type K1: 30-litres @ 60 micron thickness;
 - c) Type L1: 85-litres @ 80 micron thickness.
2. HCGW Liners (Black):
 - a) Type K2: 30-litre @ 60 micron thickness;
 - b) Type L2: 85-litre @ 40 micron thickness.

A1.3.2 Material to be used in manufacturing of liners:

1. Liners are to be manufactured from Polyethylene (PE);
2. Liners shall not contain in excess of 15% recycled PE to ensure that strength and resistance to tearing is acceptable;
3. Dies must not contain heavy metals;

4. All Plastic Liner Baskets and Freestanding Racks are to be manufactured from mild steel and stainless steel respectively as indicated in Schedule of Rates and Quantities;
5. Plastic Liner Baskets and Freestanding Racks are to be powder coated or galvanised when manufactured from mild steel. No coating is required for stainless steel Baskets or Freestanding Racks.

The following type of ties for plastic liners shall be supplied:

- Standard Pure natural rubber bands, size 34 (3,0-mm x 100-mm) or size 35 (3,0-mm x 115-mm).

A1.3.3 Plastic liner design requirements:

1. Liners for Waste must be red;
2. Liners for HCGW must be black;
3. Liners may be semi transparent;
4. All seams for liners of a thickness 40 micron must be single welded, whereas all liners with a thickness of more than 40 microns shall be double welded;
5. All liners are to be supplied with appropriate ties, with the number of ties exceeding the number of liners by 5%.

A1.3.4 Plastic liner markings:

No markings/printing will be required on any of the liners.

A1.3.5 Liner mounting Baskets and Freestanding Racks:

Note: The plastic liner mounting Basket and Freestanding Rack designs as illustrated in Figures 3, 4 and 5 of this Annexure are typical of those used during the pilot studies. Although Tenderers are invited to propose any alternative design, the aforesaid are indicative of the type of Baskets and Freestanding Racks that will be required.

1. Liners Type K1 and K2 should be compatible with wall mounting Baskets as well as Freestanding Racks, whilst liners type K1 should also be compatible with Baskets that can be hanged or clipped onto nursing trolleys to ensure safe positioning of liners during use.
2. Baskets and Freestanding Racks must as a minimum comply with the following specifications:
 - (a) Baskets and Freestanding Racks must be strong and robust and have a serviceable life of at least 5-years under normal working conditions. Any Baskets and Freestanding Racks that are not fully functional for the aforesaid service life are to be replaced by the contractor at any time during the contract period without any additional compensation;
 - (b) Brackets shall be grey or off-white coloured and shall be powder coated;
 - (c) Baskets and Freestanding Racks shall be smooth at all surfaces and free from cutting splinters, welding residues etc. that may cause abrasions to the hand or similar;
 - (d) Baskets and Freestanding Racks shall be easy to clean with no exposed areas being unreachable during usual cleaning operations.
 - (e) Freestanding Rack of stainless steel shall be equipped with 4 wheels, one of which must have a break. The overall height of the stainless steel Freestanding Racks shall not exceed 800 mm, which is to include the height of the wheels.
 - (f) Facilities should have the choice between mild steel Freestanding Racks without wheels, or alternatively mild steel Freestanding Racks equipped with 4 wheels, of which one is to

have a brake. The overall height of the Freestanding Racks shall in all instances not exceed the overall dimensions indicated in Figure 5.

- (g) Due to the slow rate at which liners are filled in some of the smaller Facilities, tenderers are during the design of baskets and freestanding racks to consider the possibility of providing some form of a closure mechanism that would reduce the emission of odours, provided that this would not increase the risk of contamination of baskets and racks to the extent that it would require frequent disinfection of fixed items. Where baskets and racks are offered that include some form of a closing mechanism at prices exceeding that of the open baskets or racks, such items are to be submitted as an alternative tender.
- (h) Wall plates for all Disposable Container brackets and baskets shall be of uniform design with a standard screw pattern that would allow for the interchange of brackets or baskets without the need for any modification to the drilled holes or wall plugs.

Container type.	Waste plastic liner.	Waste plastic liner.	Waste plastic liner.	HCGW plastic liner.	HCGW plastic liner.
Container type	J1	K1	L1	K2	L2
Capacity (litre)	12	30	85	30	85
Dimensions: Width x length	500 x 540	560 x 660	750 x 950	560 x 660	750 x 950
Liner thickness (µm)	40	60	80	60	40
Material allowed for liner.	Polypropylene or polyethylene	Polypropylene or polyethylene	Polypropylene or polyethylene	Polypropylene or polyethylene	Polypropylene or polyethylene
Min / max % recyclable material.	0/10	0/10	0/10	0/10	0/10
Wall Basket required.	-	Yes	-	Yes	-
Nursing trolley Basket required	-	Yes	-	-	-
Freestanding Rack required	-	-	Yes	-	Yes
Wall/trolley Basket or Freestanding Rack material.	-	Mild / stainless steel	-	Mild / stainless steel	-
Wall/trolley Basket or Freestanding Rack coating.	-	Powder coated / galvanised.	-	Powder coated / galvanised.	-
Liner colour.	Red	Red	Red	Black	Black
Constituents <i>not</i> allowed in dye.	No heavy metals	No heavy metals	No heavy metals	No heavy metals	No heavy metals

Figure 1.

WALL-MOUNTED BRACKET FOR 32 L BIN

All dimensions in millimetres

- Note:**
1. Dimensional tolerances +/- 3 mm, except where otherwise indicated
 2. Bend radii (unless otherwise indicated): $15 \text{ mm} < r > 5 \text{ mm}$

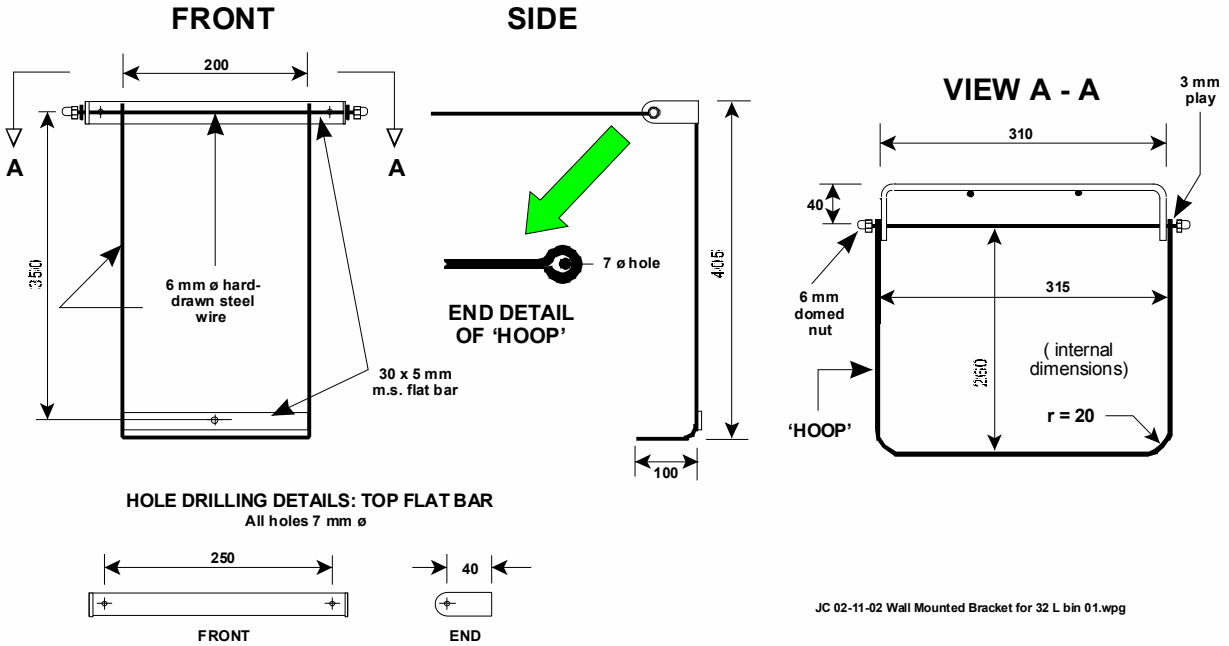


Figure 2.

SHARPS CONTAINER BRACKET FOR NURSING TROLLEY

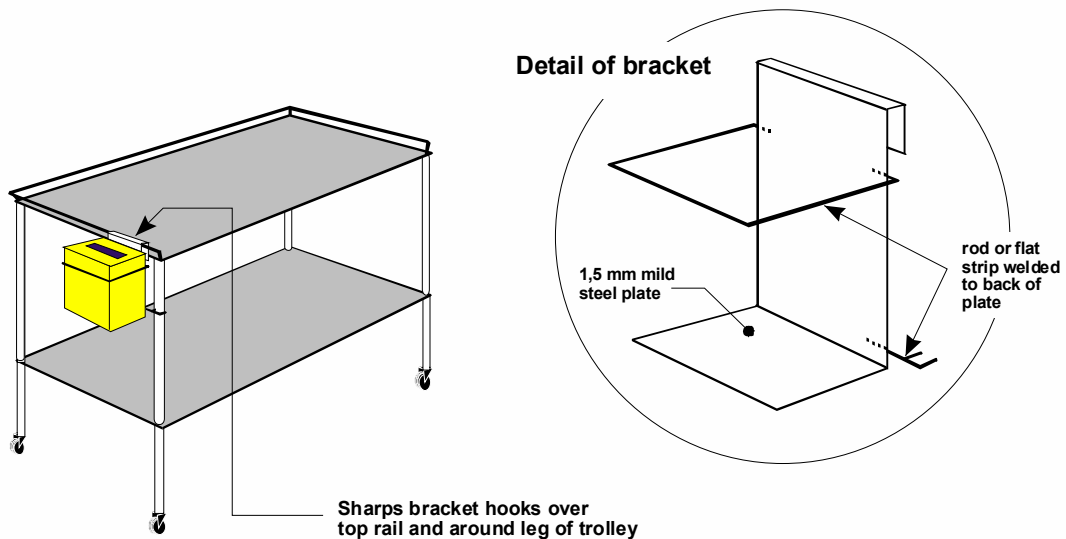


Figure 3.

WALL- MOUNTED BASKET FOR HCRW BAG

All dimensions in millimetres

- Note:**
1. Dimensional tolerances +/- 3 mm, except where otherwise indicated
 2. Bend radii (wire & flat bar): $15 \text{ mm} < r > 5 \text{ mm}$

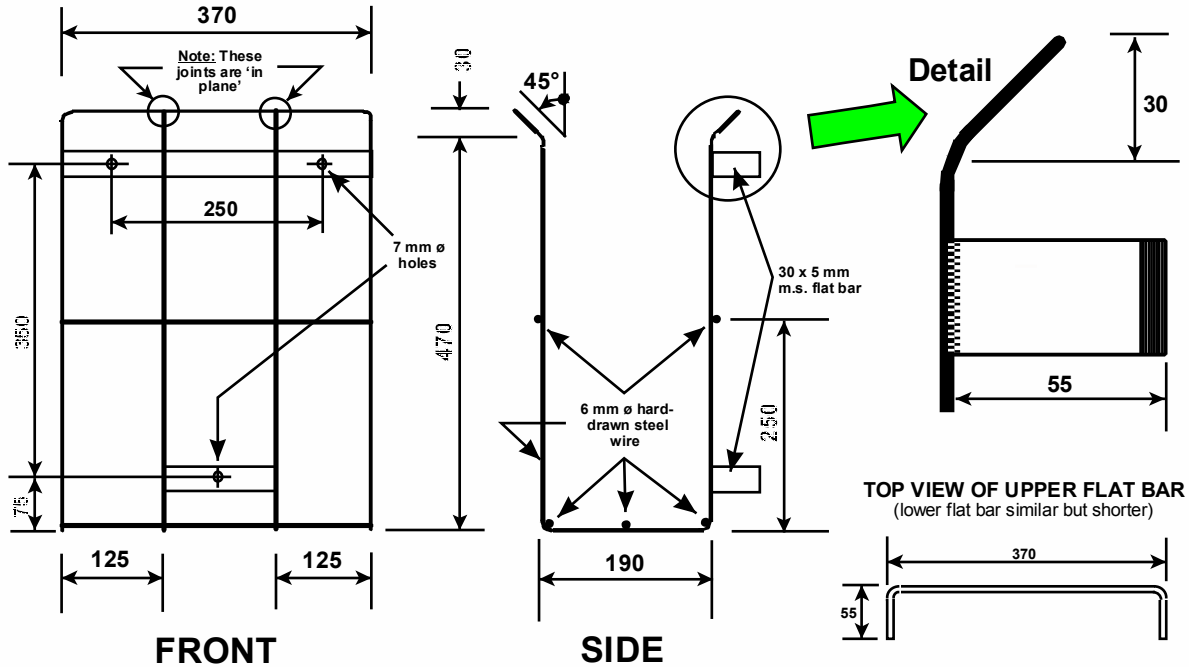


Figure 4.

NURSING-TROLLEY BASKET FOR HCRW BAG

All dimensions in millimetres

- Note:** Dimensional tolerances +/- 3 mm, except where otherwise indicated

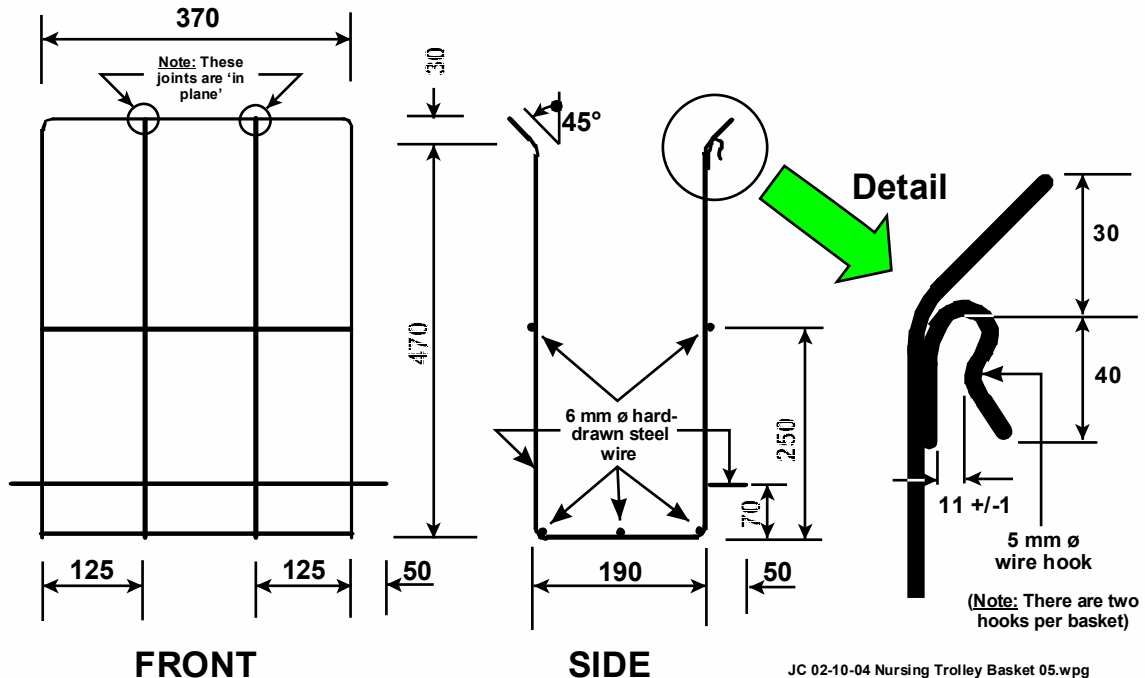


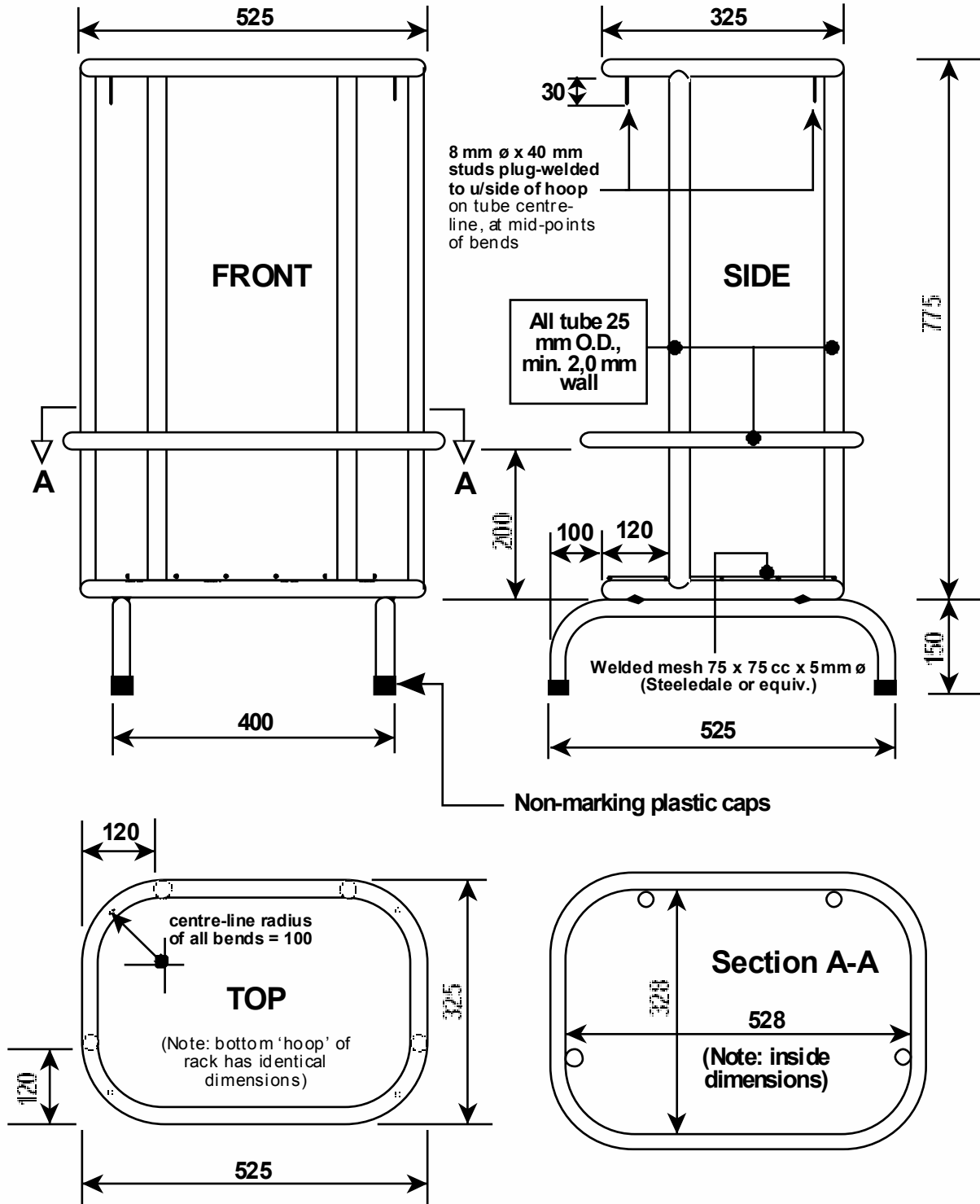


Figure 5.

FREE-STANDING RACK FOR HCRW BAG

All dimensions in millimetres

Note: Dimensional tolerances +/- 3 mm



Annexure 2

SPECIFICATIONS FOR REUSABLE CONTAINERS.

Although Tenderers are allowed to submit indicative samples and are not required to submit actual prototypes of the Reusable Containers at the time of Tender, such samples will be used for verification of features and quality standards until such time that actual prototypes are submitted for approval after award of Contracts to successful Tenderers.

A2.1: Reusable Containers for Hospitals and Clinics.

Due to the vastly different rates at which Waste is generated in Hospitals and Clinics respectively, as well as the limitations that exists on internal movement and storage of large wheelie bins at clinics, it is intended that two different sizes of wheelie bins be used for the respective applications.

The risk of physical injuries by and spillage from Waste containers used in hospitals and clinics are high, resulting in a need for reusable wheelie bins to meet certain minimum standards in terms of quality, robustness and user friendliness.

The following requirements are to be met in the supply of wheelie bin containers:

A2.1.1 Range of Reusable Containers required:

The following generic types of Reusable Containers must form part of the supply made available for distribution to Facilities:

- (a) Type A: 600 to 800-litre wheelie bins, primarily for use in Hospitals;
- (b) Type B: 200 to 300-litre wheelie bins, primarily for use in Clinics, as well as for transport of Specican Containers containing pathological waste from hospitals.

A2.1.2 Manufacturing process to be used in manufacturing of Reusable Containers:

- (a) Container body:- One-piece injection moulding;
- (b) Container lid:- One-piece injection moulding;
- (c) Wheel hubs:- Injection moulding;
- (d) Hinge pins:- Injection moulding;
- (e) Tyres:- Compressed solid rubber

Note: No moulded parts are to show any foreign substances, shrink holes, cracks or blowholes. There should also not be any obvious colour streaks.

A2.1.3 Material to be used in manufacturing of Reusable Containers:

- (a) Body, lid, wheel hubs and hinge pins: High-density polyethylene (HDPE) - Ultra violet stabilised to withstand an average annual UV radiation level of 160 Kilocalories per cm². Only virgin material is to be used;
- (b) Tyres: First grade compressed solid rubber;
- (c) Axle: Solid steel galvanised yellow chrome plated;
- (d) Colorant: The colorant shall be colourfast to prevent the plastic material colour from altering appreciably in normal use;

A2.1.4 Reusable Container design requirements:

1. Reusable Containers shall be rigid, puncture resistant, leak resistant, tamper proof;
2. Flat lids shall be affixed to wheelie bin bodies by means of hinged shafts;
3. Lids shall be such as to provide a seal between the body and the lid that will prevent/minimise the release of odours;
4. The empty as well as full mechanical stability of the Reusable Containers, when standing and while being moved or transported shall be ensured;
5. Reusable Container bodies shall be slightly tapered to allow for easy release of its contents when tipped, as well for it to be nested in the unassembled state for effective transport and storage of unassembled containers;
6. Reusable Containers shall allow for easy and safe assembling;
7. Reusable Containers shall be designed to reduce the risk of spillage of its contents in the event of accidental tipping or dropping by providing two sets of 10-mm holes opposite to the hinge side, also securing the bin contents by inserting 2 cable ties. Such holes are not in any way to impact on the structural integrity of the bins and is not to allow the ingress of water or the release of odours from the bin;
8. Suitable and sufficient cable ties are to be provided with each batch of clean and disinfected Reusable Containers delivered to the respective Facilities for sealing of full containers, forming part of the Reusable Container system;
9. Reusable Containers shall in its dimensions facilitate best possible usage of the available volume when stored or transported;
10. Types A and B Reusable Containers shall preferable be modular in plan for the 2 sizes of containers to allow for effective storage and transport of empty and full containers;
11. Type A Reusable Containers shall be equipped with handles on both sides of bin body and Type B Reusable Containers shall be equipped with own full width handle for handling and manoeuvring of containers. Lifting of wheelie bins will only be required by means of hydraulic bin lifting equipment;
12. All Reusable Containers must be compatible with standard combination lifting mechanisms in use in South Africa, with the acceptance lifting mechanism lip reinforced with locking lip, honeycomb reinforcing as well as reinforcing webs;
13. All bar code plates or transponder tags used for the identification of reusable wheelie bins shall be attached by means of a suitable epoxy or similar method that will prevent the accumulation of dirt behind the plates or tags;
14. The colour coding for Reusable Containers should be in accordance with SANS 0248, with appropriately coloured attachable tags for easy identification of the various categories of Waste to be collected in the Reusable Containers:
 - a) General Infectious Waste: Body - Red Lid - Red;
 - b) Pathological Waste: Body - Red Lid - Red;
 - c) Chemical Waste: Body - Red Lid - Red;
15. All Type A Reusable Containers are to be provided with drainage holes and tight sealing plugs at the base of the bins;
16. Lifting trunnions are to be fitted on either side of the Type A reusable bin body;
17. A yoke for the fitment of the flat lid to be affixed by a hinge pin must be an integral part of the back of the Type A Reusable Container body;
18. All Type A Reusable Containers shall be equipped with a handhold slotted on the front of the lid;
19. Type A Reusable Containers are to be equipped with 4 swivel wheels, with a diameter of minimum 250 mm, fitted to the base of the bin body. Two wheels placed symmetrically over

- the longest of the two horizontal axes shall be equipped with brakes. The wheels shall be non-marking;
20. A simple foot brake is to be provided on 2 of the swivel wheels;
 21. For all Type A Reusable Containers, the swivel wheel connecting areas at the base of the bin must be reinforced with moulded webbing and fins;
 22. All wheels and lifting trunnions on Type A Reusable Containers are to be connected by means of steel screws for plastic part assembly. The use of rivets is unacceptable.

A2.1.5 Reusable Container markings:

1. A label shall be so located on the Reusable Containers as to be clearly visible when stored with other wheelie bins;
2. The Department's name is to be hot-foiled in black on the front face of bin body, approximately 50-mm in height;
3. Serial numbers are to be hot-foiled in black on the side of body, not less than 8-mm in height. Incorporated in the number is the month and year of manufacture, which is visible when the containers are nested;
4. Reusable Containers shall include suitable hot-foiled warning signage, the international biohazards symbol and relevant UN codes as recommended by the World Health Organisation. The following text shall be provided in clear readable letters for the various Waste categories:
 - a) General Infectious Waste: "Infectious Health Risk Care Waste for Destruction" or similar text;
 - b) Pathological Waste: "Infectious Pathological Waste for Destruction" or similar text;
 - c) Chemical Waste: "Chemical Health Care Risk Waste for Destruction" or similar text;
5. Lettering on the label shall be in red to contrast with the background colour, be of one size, style and layout that will result in the marking that is clearly readable;
6. The background of the label shall be of the colour that contrasts with the surface area immediately surrounding the label;
7. All text shall as a minimum be in the English language and preferably in one or more of the other official South African languages;

A2.1.6 Quality control requirements:

1. Reusable Containers are to meet the requirements of SANS code 1494/1989. Copies of certification of containers will be required.

Annexure 3

CLEANSING, DISINFECTION AND INSPECTION OF REUSABLE CONTAINERS

The cleaning and disinfection of the Reusable Containers shall be done in accordance with the Regulations and the following requirements:

- A3.1. Written operating procedures must be established by any person responsible for disinfecting Reusable Containers, which procedures shall include approved testing methodologies for relevant biological and other indicators relating to the adequate disinfection of Reusable Containers for each unit, as well as all pertinent operating parameters;
- A3.2. Adequate disinfection of Reusable Containers must be monitored by any person responsible for disinfecting Reusable Containers, based on swab tests or similar sampling procedures for relevant biological indicators, which tests or sampling must be conducted by a competent person. Such samples must be processed by an accredited laboratory for the following biological indicators: (a) Bacterial cultures; and (b) Fungal cultures;
- A3.3. The minimum frequency of testing to be conducted in terms of Clause (2) above, must be in accordance with the following:
 - (a) Initial testing prior to commencement of operations: Daily sample swab tests of disinfected Reusable Containers for 5 (five) working days;
 - (b) Testing during usual operation: Weekly sample swab tests of disinfected Reusable Containers before dispatch to Facilities; and monthly sample swab tests of Reusable Containers after delivery to a Facility;
 - (c) After 4 (four) consecutive months of achieving reasonably adequate levels of disinfection for Reusable Containers, the test frequency as required by (a) and (b) above, may be reduced to 50 (fifty) %; Provided that should any one sample fail to achieve a reasonably adequate level of disinfection, the frequency levels required by (a) and (b) above must be adhered to.
- A3.4. Any person responsible for disinfecting Reusable Containers must ensure that a report is compiled quarterly by a competent person, regarding the level of disinfection achieved based on the results of the tests conducted in terms of Clause (2) above, which report shall include details of all procedures used.
- A3.5. The number of swab samples taken shall be reasonable compared to the number of Reusable Containers being disinfected per day at the disinfecting facility and shall be determined by a competent person.
- A3.6. The specific area of the Reusable Container to be used for sampling, as well as the location for intercepting Reusable Containers for sampling once delivered to a Facility, shall be determined by a competent person.
- A3.7. The reports required in terms of Clause (3) above must be retained for a period of 3 (three) years.
- A3.8. A 3.5% Sodium hypochlorite solution or similar approved is recommended as a solution for disinfection of Reusable Containers, as only scanty growth of bacillus species was detected in 50% of the samples taken during the Pilot Studies. The bacillus species isolated falls into the Group 1 category that is unlikely to cause human disease. Special attention is however also to be given to the risk of odour generation and where feasible, the addition of a deodorising agent to the disinfection solution may be beneficial.

Notwithstanding the aforesaid recommendations, it will ultimately remain the Contractor's responsibility to ensure that the requirements for deactivation of micro organisms are achieved.

- A3.9 Based on experience from the Pilot Studies where it was found that contamination of the reusable containers occurred during the handling and transport thereof, it is recommended that this aspect be addressed by protecting reusable containers from contamination by providing disposable wrapping (similar to "Glad Wrap") around the handles, provided that the containers are not touched in any area other than that before the wrapping is removed and round collection is done within the Facilities.

Contamination of disinfected reusable containers could alternatively be prevented by fitting a disposable plastic cover over the containers after disinfection, once again only to be removed at the start of any collection round. To optimise the use of such disposable covers, it may be designed in such a way that it could be used as bin liners when removed from the reusable containers, should that be a viable option.

Notwithstanding the aforesaid, the Contractor will ultimately remain responsible to prevent contamination of containers after disinfection.

Annexure 4

SPECIFICATIONS FOR TRAINING PROGRAMME AND CONSULTANCY SUPPORT

A4 Training Programme and Consultancy Support

The Contractor shall during the Mobilisation Period develop a Training Programme which shall be submitted for approval to the Department's Representative by no later than one month after the Contract Date. The Department shall respond to the Training Programme within 10 working days of receiving it. If the Contractor has not received a response within 10 days of submitting the Training Programme, the Contractor shall prompt the Department's Representative in writing for a response. The Training Programme shall be deemed approved by the Department if no response is received within two working days of the Contractor having prompted the Departments Representative for a response.

The Training Programme shall contain the following:

- Methodology for the training;
- Programme for the training;
- Examples of all training materials to be used by the Contractor.

Contractors will be required as part of the training and consulting service to enrol a minimum of 3 persons (per region awarded), who will be responsible for and directly involved with the training during the Rollout as well as thereafter, on the HCW Management course presented by WITS Technikon. This requirement is aimed at ensuring uniformity in the training materials and training methods already developed and used for the training of HCW Officers, with the Sustainable HCW Management Project having previously participated in the development of the course.

A4.1 Background

In most Facilities in Gauteng, there has been no training or consultancy support for the management of Waste, which resulted in the following poor practices in Facilities:

- The available equipment is sometimes poorly deployed in Facilities;
- There is inadequate problem solving, resulting in reoccurrence of problems;
- Containers and equipment is sometimes incorrectly used;
- Containers and equipment is sometimes not available in sufficient numbers or of the required quality;
- Segregation of HCW is ineffective and poses a health hazard to the general waste collectors as well as scavengers at the landfill site. Poor segregation is further resulting in excessive Waste treatment and disposal costs;
- There is inadequate linkage between Waste management and the occupational health and safety aspects of Waste such as wearing of protective clothing and reporting. Senior management is inadequately informed about effective Waste management and therefore seldom involved with any aspect of Waste management;
- There has been no promotion of any Policies, Standards or Codes of Practice for Waste management in Facilities.

As part of a programme aimed at addressing these problems, the Department appointed a Waste Officer for each Facility. Having received five days intensive training in health care waste management, such Waste Officers are required to facilitate the development of improved health care waste management practices in their respective Facilities. This is achieved by working with infection control, the cleansing department, occupational health and safety committee, Facility management and the Waste management Contractor.

However the role of the Waste Officer is a part-time responsibility and it is therefore essential that these individuals be supported in the task. The Contractor shall provide the Waste Officer with technical and training support. Such technical and training support to clinics will be delivered through their cluster managers who are part of regional DoH management structures.

The Training Programme and Consultancy Support shall ensure that there is an ongoing programme of support to Facilities through liaison with the Waste Officer and regional clinic managers. The purpose of this support is to ensure the following:

- That all Facilities are prepared for the introduction of new equipment;
- That all staff are trained in the correct use of equipment, effective segregation of HCW and in occupational health and safety aspects related to Waste management;
- That there is ongoing support to Facilities for problem solving;
- That there is an ongoing programme of training and awareness activities for the Facilities.

The Training Programme and the Consultancy Support shall be integrated to form a comprehensive support package for each Facility.

The Training Programme and Consultancy Support shall reflect the approach adopted by the Gauteng Sustainable Health Care Waste Management Project. All materials developed to date as part of the aforesaid project were based on the outcomes of an extensive survey and execution of two pilot studies. All of the existing materials and the survey reports used in this pilot initiative are available on the website <http://www.csir.co.za/ciwm/hcrw> . The Contractors shall make use of these materials and adapt it as considered necessary.

A4.2 Specifications for the Training Programme

The Training Programme shall be facilitated through the Waste Officer in each Hospital and community health centre and through regional managers for Clinics. The Training Programme shall interact with In-service Training programmes in the Region as required to ensure maximum impact, publicity and support. Training venues will be made available by the Department. The Training Programme shall be conducted on-site at health facilities or locally to minimize trainee transport costs.

A4.2.1 Scope of supply for the Training Programme

The Contractor shall provide a Training Programme that allows for intensive training during the Rollout Period, followed by Training at regular intervals throughout the remainder of the Services Period.

The training shall be divided into Training Cycles, with each Training Cycle for any particular Hospital or Cluster of Clinics consisting of a 5 day training period. The Contractor shall during the first year of the Services period provide 3 Training Cycles, with the first Training Cycle being

delivered during the Rollout Period. During the second year of the Services Period, the Contractor shall provide 2 Training Cycles, whilst in the third, fourth and fifth years of the Services Period a single Training Cycle will be provided annually.

As the first year's training programme, the Contractor will therefore provide 5 days of training for each Hospital and for each Cluster of Clinics during Rollout Period, followed by further 5 day Training Cycles during the 6th and 12th month of the Services Period. In year two, the Contractor is to provide Training Cycles during the 6th and 12th month only, whereas for the remaining 3 years of the Services Period the Contractor shall provide a single series of 5 days Training Cycles for each Hospital and each Cluster of Clinics during the 6th month of each year.

The Contractor shall ensure that the training resources are utilised efficiently and shall on the basis of the experiences gained during the Rollout, within the overall scope of supply, suggest reallocation of training resources to address differences in the size of Hospitals and Clusters of Clinics as well as differences in the skills level and motivation experienced at the different Facilities.

The Contractor shall prior to commencement of a new calendar year, submit a proposal for the allocation of training resources during the following calendar year to the Department's Representative.

A4.2.2 Target groups for training

The Training Programme shall target the following staff groups at the Facilities;

- Hospital management (administration and medical services);
- Clinic management, including Regional clinic managers;
- Occupational Health and Safety Committees and representatives at Facilities;
- Regional environmental health as well as occupational health and safety representatives;
- All categories of medical and allied medical staff in Facilities;
- All categories of none medical staff with specific attention to general assistants in Facilities;
- Health sciences students who are on placement in Facilities.

A4.2.3 Training content

The Training Programme shall address existing gaps identified in knowledge, skills and attitude. Collectively these will contribute to the behaviour required for sustainable health care waste management. The following priority areas are therefore to be addressed by the Training Programme:

A4.2.3.1 Knowledge gaps

- The hazards associated with health care waste;
- Offsite treatment / disposal of Waste;
- Offsite disposal of health care general waste;
- The different categories of health care waste;
- Correct segregation of waste;
- The types of containers and liners for the collection and storage of health care waste;
- The role of the Gauteng Code of Practice for Health Care Waste Management;
- The correct use of personal protective clothing;
- The importance of reporting on internal performance monitoring and external auditing.

A4.2.3.2 Attitude Change

Attitude change must be promoted as part of Training Programme. Important aspects to promote shall include, but not be limited to:

- The importance of protecting the environment;
- The importance of recycling;
- Everyone who works in a health facility is responsible for effective health care waste management;
- Good health care waste management protects everyone's health and safety.

A4.2.3.3 Skills teaching

Demonstration is an important component of introducing a new waste management system. There are new skills required for the use of new equipment; at the point of generation, during intermediate storage, during internal transport as well as at the central store.

A4.2.4 Methodology

The Contractor's approach to training must be outcomes based and participatory. The Training Programme shall make use of simple picture based teaching tools that encourage discussion without being overly technical.

To ensure fast but effective training inside Facilities the Training Programme shall utilise a "train the trainer" approach and support cascade training. Wherever possible, training shall be multi-disciplinary and should encourage medical and non-medical staff to work together on health care waste issues. Although training and skills demonstration shall primarily be on the job, there may be other channels that could be used effectively such as management meetings and Continuing Professional Development (CPD) meetings for doctors. The Contractor shall further ensure that health care waste management training is integrated into the orientation programmes for students placed at the Facility, with a mechanism also in place to cater for night staff and shift workers.

Monitoring of training activities is essential and should also include the identification of further training needs.

A4.2.5 Training materials

The Contractor shall support the training through the use of appropriate visual aids during training to reinforce the main teaching information. The training materials shall be picture based and in more than one language as appropriate. Technical language is however to be avoided. Although the training materials shall predominantly consist of printed materials, audiovisual materials may be accepted if well motivated. All training materials shall be pre-tested by the Contractor during the design phase and approved by the GDoH before printing, with all materials carrying the GDoH logo.

English will be the language used for all training materials as well as for the presentation of training sessions. English plus one other official South African language (to be agreed upon) will be the language used for the development of awareness materials for display at Facilities.

A4.2.6 Awareness activities and other support materials

The Contractor shall include awareness activities as part of the Training Programme. Awareness activities shall be used to highlight the importance of health care waste management, to reinforce key messages and to provide incentives. An inter-ward competition could for instance be an effective tool to promote better segregation.

Although the Gauteng Sustainable Health Care Waste Management Project produced a health care waste awareness activities booklet that could be used by the Contractor, it is likely that the awareness activities on the health care waste management system be supported with the provision of additional materials such as stickers to reinforce the use of black liners for general waste or Sharps Containers for sharps.

It is expected that one awareness activity per hospital and community health centre and two regional awareness activities for clinics and other regional staff be organised per year.

A4.2.7 Background of trainers

The available capacity of the Contractor and the proposed trainers is essential in the award of this Contract. The Contractor shall demonstrate the following:

- Experience in the design of training programmes;
- Delivery of a five year training programme;
- Experience in the design and production of training materials;
- Capacity to ensure ongoing monitoring and regular reporting to the Department;
- Experience of performance evaluation.

The Contractor's Trainers shall have the following background:

- Strong informal training experience;
- Training background in community development / health promotion / environmental health / occupational health;
- A good understanding of the health facility environment;
- Ability to work in English and other South African languages.

The CV's of the proposed trainers shall be included in the Tender.

The Contractor shall only introduce new trainers to undertake the Training Programme, after written approval of such trainer has been granted by the Department.

A4.2.8 Evaluation

The Department will evaluate the effectiveness of training. The Contractor shall cooperate with any evaluator, external or internal, that the Department may appoint to undertake the required evaluation. The Contractor shall make any training programmes and training materials available, as may be required by the evaluator. The Contractor shall further allow for the evaluator or any other persons nominated by the Department, to participate in the training sessions.

As part of the evaluation process, the Contractor shall also compile an evaluation sheet that must be completed by all participants in the various training sessions.

For the purpose of evaluation and monitoring, the Contractor shall submit a report on the training for each Training Cycle completed. The report shall be submitted to the Department's Representative, together with the relevant invoice for the Training Cycle.

The report shall as a minimum contain the following:

- Time sheets and attendance list for all training sessions;
- Evaluation sheets from all training sessions;
- Programme for the Training Cycle with details of venues, dates and participants;
- Any deviations from the Training Programme, with reasons for the deviation;
- Lessons learnt and recommendations for amendments to the Training Programme during future Training Cycles.

A4.3 Specifications for the Consultancy Support

The Contractor's shall provide a Consultancy Support that shall comply with the present Project Specification.

The Consultancy Support shall specifically address technical issues related to the health care waste management system. It is essential for the person nominated to render the consultancy support to be familiar with occupational health and safety legislation, infection control principles and the cradle to grave management of all health care waste streams. Although the consultancy service will primarily be aimed at the Waste Officer in the Facilities, it will also be for support to senior management in Facilities in the Region, Occupational Health and Safety Committees and other Regional representatives. The consultant would further be expected to support and advise on the Training Programme.

A4.3.1 Two Phased Consultancy Support to the Health Care Waste System.

Phase 1 of the consultancy support programme will be intensive to ensure the successful Rollout of the new Waste Management System, whereas Phase 2 will provide a sustained presence to ensure the maintenance of HCW management standards. It is expected for the Contractor to provide 15 person-days of consultancy support to each Hospital and cluster of clinics during the Rollout. The consultancy during Rollout is specified in Section 13.5.

Phase 2 of the Consultancy Support will commence at the Rollout Completion Date and will continue to the end of the Contract Period. The objective of Phase 2 will be to provide the Facilities with support in problem solving on HCW Management related matters.

The Contractor shall provide support to the Facilities either by phone or alternatively on location, depending on the nature of the problem.

A4.3.2 Background of consultants

Consultants shall have a background in occupational health and safety, environmental health or infection control. They may also have a nursing or medical background. Consultants shall further be familiar with working in health facilities and should preferable have public sector experience.

The CV's of the proposed consultants shall be included in the Tender.

The Contractor shall only introduce new consultants to undertake the Training Programme after written approval of such consultant was granted by the Department.

Annexure 5

List of Facilities

A5.1 List of Facilities: Region A

PLEASE NOTE: LIST OF FACILITIES PER REGION TO BE SERVICED BY THIS TENDER TO BE HANDED OUT SEPARATELY BY THE GAUTENG DEPARTMENT OF HEALTH

A5.2 List of Facilities: Region B

PLEASE NOTE: LIST OF FACILITIES PER REGION TO BE SERVICED BY THIS TENDER TO BE HANDED OUT SEPARATELY BY THE GAUTENG DEPARTMENT OF HEALTH

A5.3 List of Facilities: Region C

PLEASE NOTE: LIST OF FACILITIES PER REGION TO BE SERVICED BY THIS TENDER TO BE HANDED OUT SEPARATELY BY THE GAUTENG DEPARTMENT OF HEALTH

Annexure 6

SCHEDULE OF RATES AND QUANTITIES

A6.1 Preamble

- a. The Schedule of Rates and Quantities must be read in conjunction with the Conditions of Tender, the General Conditions of Contract, Tender and Order, Special Conditions of Contract, Project Specifications and Annexures and all other data included in these documents for the full intent and meaning of each clause or item.
- b. Tenderers are advised to check the number of pages and, should any be found to be missing or in duplicate or the figures or writing indistinct or this Schedule of Rates and Quantities contains any obvious errors, the Tenderer must inform the Consultant at once and have it rectified. No liability whatsoever will be admitted in respect of errors due to the foregoing.

Should there be any doubt or obscurity as to the meaning of any particular item, the Tenderer must obtain an explanation of it, in writing, from the Department or its representative. No claims for extras arising from any such doubt or obscurity will be admitted after submission of the Tender.

- c. The Tenderer is advised to read carefully the Conditions of Tender, the General Conditions of Contract, Special Conditions of Contract, Project Specifications and Annexures in so far as they apply to items in the Schedule of Rates and Quantities. Descriptions of activities described in the Schedule of Rates and Quantities are abbreviated.

No claim whatsoever will be allowed in respect of errors in pricing due to abbreviation of the description of items which are fully described when read in conjunction with the relevant specification.

- d. The Tenderer is hereby advised that the quantities provided in the Rates and Quantities are monthly estimates and the total tender amount is determined by multiplying the total monthly cost for each Region by the number of months for which the Contract will be awarded.

It is further to be noted that the quantities provided in the Schedule of Rates and Quantities are preliminary monthly estimates, provided for information, and the actual monthly quantities (whether in excess or short of the estimated quantity) will be determined by the end of each month in accordance with the waste recordings made throughout the month. For this purpose, other than the tendered Rates, the contents of the Schedule of Rates and Quantities are to be considered as provisional and therefore subject to re-measurement and adjustment in part or as a whole. All such adjustments will be based on, or pro-rata to, the schedule unit prices submitted by the Contractor.

- e. It is deemed that provision for head office overheads, consumable stores, profit, etc., as well as all labour, material and equipment costs, is made in the priced items of the measured schedule following the preliminary schedule and that any increases or decreases in the measured quantities will correspondingly adjust for these charges.
- f. Tenderers are referred to the Project Specification in which further information in respect of certain scheduled items can be obtained. This is meant as an aid to Tenderers but does not imply that the Specifications or clauses referred to are the only sources of information in respect of these items and

further information and explanations may be found elsewhere in the Tender documents and in the Annexures.

- g. The sum and unit prices to be inserted in the Schedule of Rates and Quantities are to be the fully inclusive value of the work described under the several items, including all costs and expenses which may be required in and for the execution of the work described, together with all general risks, liabilities and obligations set forth or implied in the documents on which the tender is based.
- h. All unit prices shall be quoted nett and be exclusive of Value Added Tax (VAT). Provision is made in the summary page for the addition of Value Added Tax to the total of the various Sections comprising the Schedule of Rates and Quantities.
- i. All unit prices, extensions and totals must be entered in the Schedule in BLACK INK.

A sum or unit price is to be entered against each item in the Schedule of Rates and Quantities, whether quantities are stated or not. Items against which no price is entered will be considered as covered by other prices or rates in the schedule.

The Tenderer is at liberty to insert a rate of his own choosing for each item in the schedules and his attention is drawn to the fact that the Contractor has the right, under various circumstances to payment for additional works carried out, and that the Consultant is obliged to base his assessment of the rates to be paid for such additional work on the rates inserted in the schedule by the Tenderer.

In cases where schedule rates are considered to be too high, such rates may be of sufficient importance to warrant rejection of a tender.

- j. All prices shall be quoted in the currency of the Republic of South Africa and will be subject to adjustment as specified in the Specification.
- k. Where any discrepancy exists between the unit price and the extended total against any item, the discrepancy will be adjusted by altering the total amount filled in against such item and, consequently, the total tender sum.
- l. Although the objective is for the three Regions to be awarded to 3 different Tenderers, thereby allowing effective development of the HCW industry in Gauteng, the Department may decide to award two out of the three Regions to any one Tenderer, should there be sufficient financial benefits to the Department for doing so. Tenderers are therefore referred to the discount offer statement at the end of the Schedule of Rates and Quantities for Region C, where tenderers are allowed the opportunity to indicate a percentage discount on all of the affected unit rates, should the Scope of Work be increased through the award of a second Region to any one Tenderer.
- m. Two sets of Schedules of Rates and Quantities are provided for each of the 3 Regions i.e. for a 3-year and 5-year option, with Tenderers being advised to submit rates for each of the options. Should the potential saving for awarding the Contract for a 5-year period rather than a 3-year period justify a longer Contract term, the Department may enter into 5-year Contract periods rather than a 3-year Contract periods.

A6.2 Schedule of Rates & Quantities: Region A – 3 Year Option

Section A1 – 3 Year Option: Variable costs						
<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
A1.1	Pay Item 18.4 Annex A4.2	Training: Rendering ongoing training and capacity building throughout the Services Period in accordance with the Training Programme.	Training Day	500		
Sub-Total 1 for Training (VAT Excluded):						
A1.2	Pay Item 18.3	Waste Durable Items: Supply and installation of wall and nursing trolley brackets and baskets as well as freestanding racks for disposable Waste containers and liners.				
A1.2.1	Annex A1.1.5	Wall bracket for Sharps Container Type B (Mild steel).	Number	400		
A1.2.2	Annex A1.1.5	Wall bracket for Sharps Container Type B (Stainless steel).	Number	45		
A1.2.3	Annex A1.1.5	Wall bracket for Sharps Container Type C (Mild steel).	Number	130		
A1.2.4	Annex A1.1.5	Wall bracket for Sharps Container Type C (Stainless steel).	Number	20		
A1.2.5	Annex A1.1.5	Nursing trolley bracket for Sharps Container Type B (Mild steel).	Number	230		
A1.2.6	Annex A1.1.5	Nursing trolley bracket for Sharps Container Type B (Stainless steel).	Number	30		
A1.2.7	Annex A1.2.5	Wall bracket for Specican Container Type F (Mild steel).	Number	30		
A1.2.8	Annex A1.2.5	Wall bracket for Specican Container Type F (Stainless steel).	Number	5		
A1.2.9	Annex A1.3.5	Wall basket for Liner Type K1 (Mild steel).	Number	230		
A1.2.10	Annex A1.3.5	Wall basket for Liner Type K1 (Stainless steel).	Number	30		
A1.2.11	Annex A1.3.5	Nursing trolley basket for Liner Type K1 (Mild steel).	Number	290		
A1.2.12	Annex A1.3.5	Nursing trolley basket for Liner Type K1 (Stainless steel).	Number	30		
A1.2.13	Annex A1.3.5	Freestanding Rack for Liner Type L1 (Mild steel).	Number	150		
A1.2.14	Annex A1.3.5	Freestanding Rack for Liner Type L1 (Stainless steel with 4 wheels, 1 brake).	Number	40		
A1.2.15	Annex A1.3.5	Freestanding Rack for Liner Type L1 (Mild steel with 4 wheels, 1 brake).	Number	150		
Sub-Total 2 for Waste Durable Items (VAT Excluded):						
A1.3	Pay Item 18.3	HCGW Durable Items (option): Supply and installation of wall baskets as well as freestanding racks for disposable HCGW Liners.				
A1.3.1	Annex A1.3.5	Wall basket for Liner Type K2 (Mild steel).	Number	460		

Technical Specification for Health Care Risk Waste Management Services in Gauteng

A1.3.2	Annex A1.3.5	Wall basket for Liner Type K2 (Stainless steel).	Number	60		
A1.3.3	Annex A1.3.5	Freestanding Rack for Liner Type L2 (Mild steel).	Number	600		
A1.3.4	Annex A1.3.5	Freestanding Rack for Liner Type L2 (Stainless steel with 4 wheels, 1 brake).	Number	80		
Sub-Total 3 for HCGW Durable Items (VAT Excluded):						
Total Contract Costs for Section A1 – 3 Year Option (VAT Excluded):						

Section A2 – 3 Year Option: Supply and Distribution of Disposable Containers.						
<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
A2.1	Pay Item 18.1	Disposable Sharps Containers: Monthly supply and delivery to the Facilities of the following types of <i>yellow</i> disposable Sharps Containers.				
A2.1.1	Annex A1.1	Type A: 1-4 litre.	Number / month	320		
A2.1.2	Annex A1.1	Type B: 4-8 litre.	Number / month	1 450		
A2.1.3	Annex A1.1	Type C: 8-15 litre.	Number / month	480		
A2.1.4	Annex A1.1	Type D: 15-25 litre Container.	Number / month	40		
A2.1.5	Annex A1.1	Type E: Tall Container.	Number / month	25		
A2.2	Pay Item 18.1	Disposable Specican Containers: Supply and delivery to the Facilities of the following types of <i>red</i> disposable Specican Containers:				
A2.2.1	Annex A1.2	Type F: 8-15 litre	Number / month	300		
A2.2.2	Annex A1.2	Type G: 15-25 litre	Number / month	100		
A2.2.3	Annex A1.2	Type H: 40-70 litre	Number / month	30		
A2.2.4	Annex A1.2	Type I: 80-100 litre limb Container.	Number / month	10		
A2.3	Pay Item 18.1	Waste Liners: Supply and delivery to the Facilities of the following types of <i>red</i> Waste liners:				
A2.3.1	Annex A1.3	Type J1: 12 litre	Number / month	10 200		
A2.3.2	Annex A1.3	Type K1: 30 litre	Number / month	15 250		
A2.3.3	Annex A1.3	Type L1: 85 litre	Number / month	13 800		
Sub-Total 1: Monthly Cost - Waste Disposable Items (VAT Excluded):						
A2.4	Pay Item 18.1	HCGW Liners (option): Supply and delivery to the Facilities of the following types of <i>black</i> HCGW liners:				

Technical Specification for Health Care Risk Waste Management Services in Gauteng

A2.4.1	Annex A1.3	Type K2: 30 litre	Number / month	30 500		
A2.4.2	Annex A1.3	Type L2: 85 litre	Number / month	27 600		
Sub-Total 2: Monthly Cost - HCGW Disposable Items (VAT Excluded):						
Total Monthly Costs for Section A2 – 3 Year Option (VAT Excluded):						
						x 34 (months)
Total Contract Costs for Section A2 – 3 Year Option (VAT Excluded):						

Section A3 – 3 Year Option: Replacement of Reusable Containers lost or severely damaged during use by the Department.						
<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
A3.1	Pay Item 18.7	Reusable Containers: Replacement of Reusable Containers lost or severely damaged during use by GDoH for the duration of the contract.				
A3.1.1	Sect. 7.1	Type A Reusable Containers as per specification	Number / month	1		
A3.1.2	Sect. 7.1	Type B Reusable Containers as per specification	Number / month	1		
Total Monthly Costs for Section A3 – 3 Year Option (VAT Excluded):						
						x 34 (months)
Total Contract Costs for Section A3 – 3 Year Option (VAT Excluded):						

Section A4 – 3 Year Option: Collection, Transport, Treatment and Disposal of Waste, including maintenance and distribution of reusable containers.						
<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
A4.1	Pay Item 18.2	Fixed volumetric cost for Waste: Cost for the collection, transport, treatment and disposal of Waste collected in the following types of containers. The cost is also to include for the cleansing and disinfection of reusable containers, including supply of cable ties.				
A4.1.1	Sect. 8.3	Volume collected in Type A Reusable Containers.	cub.m/month	465		
A4.1.2	Sect. 8.3	Volume collected in Type B Reusable Containers.	cub.m/month	1 620		
A4.2	Pay Item 18.2	Extra-over mass cost for Waste: Extra-over cost to Items A4.1.1 or A4.1.2 per kg of Waste (collected in Reusable Containers only) for the collection, transport, treatment and disposal of Waste, irrespective of the type of reusable container used.				
A4.2.1	Sect. 5.6	Extra over cost per kg of General Infectious Waste.	Kg/month	131 000		
A4.2.2	Sect. 5.6	Extra over cost per kg of Pathological Waste.	Kg/month	4 000		

Technical Specification for Health Care Risk Waste Management Services in Gauteng

A4.2.3	Sect. 5.6	Extra over cost per kg of Chemical / Pharmaceutical Waste.	Kg/month	4 000		
A4.3	Pay Item 18.2	Waste collected in disposable containers: All inclusive cost measured in kg (including the container mass) of Waste collected in disposable containers for the collection, transport, treatment and disposal of Waste, irrespective of the type of disposable container used.				
A4.3.1	Sect. 5.6	Cost per kg of General Infectious Waste.	Kg/month	16 200		
A4.3.2	Sect. 5.6	Cost per kg of Pathological Waste.	Kg/month	4 000		
A4.3.3	Sect. 5.6	Cost per kg of Chemical / Pharmaceutical Waste.	Kg/month	4 000		
Total Monthly Costs for Section A4 – 3 Year Option (VAT Excluded):						
						x 34 (months)
Total Contract Costs for Section A4 – 3 Year Option (VAT Excluded):						

Section A5 – 3 Year Option: Supply and Distribution of disposable Waste containers as part of dual HCW management system.

<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
A5.1	Pay Item 18.1	Disposable cardboard boxes: Supply and distribution as part of the dual system of the following sizes disposable cardboard boxes, including plastic liners, tape and liner ties, to all Facilities where the Reusable Container system has not been rolled out yet. Collection, transport, treatment and disposal of waste collected in any disposable containers where the Reusable Container system has not been rolled out, will be measured under Section 6.				
A5.1.1	Sect. 13.3	50-litre cardboard boxes, with plastic liners.	Number / month	2 850		
A5.1.2	Sect. 13.3	140-litre cardboard boxes, with plastic liners.	Number / month	39 000		
<i>Note: Disposable Sharps Containers and Specican Containers to be supplied and distributed as part of the dual system will be measured under Section A2.</i>						
Total Monthly Costs for Section A5 – 3 Year Option (VAT Excluded):						
						x 2 months
Total Contract Costs for Section A5 – 3 Year Option (VAT Excluded):						

Section A6 – 3 Year Option: Collection, Transport, Treatment and Disposal of Waste collected in disposable Waste containers as part of dual HCW management system.

<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
A6.1	Pay Item 18.2	Total cost per kg for Waste collected in disposable containers forming part of the dual system: Total cost per kg of Waste (including the mass of the disposable containers) for the collection, transport, treatment and disposal of Waste, irrespective of the type of disposable container used.				
A6.1.1	Sect. 8.3	Total cost per kg of Waste in all disposable containers forming part of the dual system, excluding cost of containers.	Kg/month	162 000		

Total Monthly Costs for Section A6 – 3 Year Option (VAT Excluded):	
	x 2 months
Total Contract Costs for Section A6 – 3 Year Option (VAT Excluded):	

Summary of Rates & Quantities: Region A – 3 Year Option.	
Section A1:	Preliminary and General for all aspects of the Service.
Section A2:	Supply and Distribution of Disposable Containers.
Section A3:	Replacement of Reusable Containers lost or severely damaged during use by the Department.
Section A4:	Collection, Transport, Treatment and Disposal of Waste, including maintenance and distribution of reusable containers.
Section A5:	Supply and Distribution of Disposable Containers as part of dual HCW management system.
Section A6:	Collection, Transport, Treatment and Disposal of Waste collected in disposable Waste container system as part of dual HCW management system.
Total for all Sections - Region A – 3 Year Option (VAT Excluded)	
	VAT @ 14%
Total for all Sections - Region A – 3 Year Option (VAT Included)	

A6.3 Schedule of Rates & Quantities: Region B – 3 Year Option

Section B1 – 3 Year Option: Variable costs						
<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
B1.1	Pay Item 18.4 Annex A4.2	Training: Rendering ongoing training and capacity building throughout the Services Period in accordance with the Training Programme.	Training Day	480		
Sub-Total 1 for Training (VAT Excluded):						
B1.2	Pay Item 18.3	Waste Durable Items: Supply and installation of wall and nursing trolley brackets and baskets as well as freestanding racks for disposable Waste containers and liners.				
B1.2.1	Annex A1.1.5	Wall bracket for Sharps Container Type B (Mild steel).	Number	300		
B1.2.2	Annex A1.1.5	Wall bracket for Sharps Container Type B (Stainless steel).	Number	30		
B1.2.3	Annex A1.1.5	Wall bracket for Sharps Container Type C (Mild steel).	Number	100		
B1.2.4	Annex A1.1.5	Wall bracket for Sharps Container Type C (Stainless steel).	Number	10		
B1.2.5	Annex A1.1.5	Nursing trolley bracket for Sharps Container Type B (Mild steel).	Number	225		
B1.2.6	Annex A1.1.5	Nursing trolley bracket for Sharps Container Type B (Stainless steel).	Number	30		
B1.2.7	Annex A1.2.5	Wall bracket for Specican Container Type F (Mild steel).	Number	25		
B1.2.8	Annex A1.2.5	Wall bracket for Specican Container Type F (Stainless steel).	Number	5		
B1.2.9	Annex A1.3.5	Wall basket for Liner Type K1 (Mild steel).	Number	160		
B1.2.10	Annex A1.3.5	Wall basket for Liner Type K1 (Stainless steel).	Number	20		
B1.2.11	Annex A1.3.5	Nursing trolley basket for Liner Type K1 (Mild steel).	Number	220		
B1.2.12	Annex A1.3.5	Nursing trolley basket for Liner Type K1 (Stainless steel).	Number	25		
B1.2.13	Annex A1.3.5	Freestanding Rack for Liner Type L1 (Mild steel).	Number	115		
B1.2.14	Annex A1.3.5	Freestanding Rack for Liner Type L1 (Stainless steel with 4 wheels, 1 brake).	Number	25		
B1.2.15	Annex A1.3.5	Freestanding Rack for Liner Type L1 (Mild steel with 4 wheels, 1 brake).	Number	115		
Sub-Total 2 for Waste Durable Items (VAT Excluded):						
B1.3	Pay Item 18.3	HCGW Durable Items (option): Supply and installation of wall baskets as well as freestanding racks for disposable HCGW Liners.				
B1.3.1	Annex A1.3.5	Wall basket for Liner Type K2 (Mild steel).	Number	320		

Technical Specification for Health Care Risk Waste Management Services in Gauteng

B1.3.2	Annex A1.3.5	Wall basket for Liner Type K2 (Stainless steel).	Number	40		
B1.3.3	Annex A1.3.5	Freestanding Rack for Liner Type L2 (Mild steel).	Number	460		
B1.3.4	Annex A1.3.5	Freestanding Rack for Liner Type L2 (Stainless steel with 4 wheels, 1 brake).	Number	50		
Sub-Total 3 for HCGW Durable Items (VAT Excluded):						
Total Contract Costs for Section B1 – 3 Year Option (VAT Excluded):						

Section B2 – 3 Year Option: Supply and Distribution of Disposable Containers.						
<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
B2.1	Pay Item 18.1	Disposable Sharps Containers: Monthly supply and delivery to the Facilities of the following types of <i>yellow</i> disposable Sharps Containers.				
B2.1.1	Annex A1.1	Type A: 1-4 litre.	Number / month	240		
B2.1.2	Annex A1.1	Type B: 4-8 litre.	Number / month	1 100		
B2.1.3	Annex A1.1	Type C: 8-15 litre.	Number / month	360		
B2.1.4	Annex A1.1	Type D: 15-25 litre Container.	Number / month	30		
B2.1.5	Annex A1.1	Type E: Tall Container.	Number / month	20		
B2.2	Pay Item 18.1	Disposable Specican Containers: Supply and delivery to the Facilities of the following types of <i>red</i> disposable Specican Containers:				
B2.2.1	Annex A1.2	Type F: 8-15 litre	Number / month	225		
B2.2.2	Annex A1.2	Type G: 15-25 litre	Number / month	80		
B2.2.3	Annex A1.2	Type H: 40-70 litre	Number / month	25		
B2.2.4	Annex A1.2	Type I: 80-100 litre limb Container.	Number / month	10		
B2.3	Pay Item 18.1	Waste Liners: Supply and delivery to the Facilities of the following types of <i>red</i> Waste liners:				
B2.3.1	Annex A1.3	Type J1: 12 litre	Number / month	7 600		
B2.3.2	Annex A1.3	Type K1: 30 litre	Number / month	11 400		
B2.3.3	Annex A1.3	Type L1: 85 litre	Number / month	10 300		
Sub-Total 1: Monthly Cost - Waste Disposable Items (VAT Excluded):						
B2.4	Pay Item 18.1	HCGW Liners (option): Supply and delivery to the Facilities of the following types of <i>black</i> HCGW liners:				

Technical Specification for Health Care Risk Waste Management Services in Gauteng

B2.4.1	Annex A1.3	Type K2: 30 litre	Number / month	22 800		
B2.4.2	Annex A1.3	Type L2: 85 litre	Number / month	20 600		
Sub-Total 2: Monthly Cost - HCGW Disposable Items (VAT Excluded):						
Total Monthly Costs for Section B2 – 3 Year Option (VAT Excluded):						
						x 34 (months)
Total Contract Costs for Section B2 – 3 Year Option (VAT Excluded):						

Section B – 3 Year Option: Replacement of Reusable Containers lost or severely damaged during use by the Department.

<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
B3.1	Pay Item 18.7	Reusable Containers: Replacement of Reusable Containers lost or severely damaged during use by GDoH for the duration of the contract.				
B3.1.1	Sect. 7.1	Type A Reusable Containers as per specification	Number / month	1		
B3.1.2	Sect. 7.1	Type B Reusable Containers as per specification	Number / month	1		
Total Monthly Costs for Section B3 – 3 Year Option (VAT Excluded):						
						x 34 (months)
Total Contract Costs for Section B3 – 3 Year Option (VAT Excluded):						

Section B4 – 3 Year Option: Collection, Transport, Treatment and Disposal of Waste, including maintenance and distribution of reusable containers.

<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
B4.1	Pay Item 18.2	Fixed volumetric cost for Waste: Cost for the collection, transport, treatment and disposal of Waste collected in the following types of containers. The cost is also to include for the cleansing and disinfection of reusable containers, including supply of cable ties.				
B4.1.1	Sect. 8.3	Volume collected in Type A Reusable Containers.	cub.m/month	360		
B4.1.2	Sect. 8.3	Volume collected in Type B Reusable Containers.	cub.m/month	1 250		
B4.2	Pay Item 18.2	Extra-over mass cost for Waste: Extra-over cost to Items A4.1.1 or A4.1.2 per kg of Waste (collected in Reusable Containers only) for the collection, transport, treatment and disposal of Waste, irrespective of the type of reusable container used.				
B4.2.1	Sect. 5.6	Extra over cost per kg of General Infectious Waste.	Kg/month	100 000		
B4.2.2	Sect. 5.6	Extra over cost per kg of Pathological Waste.	Kg/month	3 200		

Technical Specification for Health Care Risk Waste Management Services in Gauteng

B4.2.3	Sect. 5.6	Extra over cost per kg of Chemical / Pharmaceutical Waste.	Kg/month	3 200		
B4.3	Pay Item 18.2	Waste collected in disposable containers: All inclusive cost measured in kg (including the container mass) of Waste collected in disposable containers for the collection, transport, treatment and disposal of Waste, irrespective of the type of disposable container used.				
B4.3.1	Sect. 5.6	Cost per kg of General Infectious Waste.	Kg/month	12 500		
B4.3.2	Sect. 5.6	Cost per kg of Pathological Waste.	Kg/month	3 200		
B4.3.3	Sect. 5.6	Cost per kg of Chemical / Pharmaceutical Waste.	Kg/month	3 200		
Total Monthly Costs for Section B4 – 3 Year Option (VAT Excluded):						
						x 34 (months)
Total Contract Costs for Section B4 – 3 Year Option (VAT Excluded):						

Section B5 – 3 Year Option: Supply and Distribution of disposable Waste containers as part of dual HCW management system.

<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
B5.1	Pay Item 18.1	Disposable cardboard boxes: Supply and distribution as part of the dual system of the following sizes disposable cardboard boxes, including plastic liners, tape and liner ties, to all Facilities where the Reusable Container system has not been rolled out yet. Collection, transport, treatment and disposal of waste collected in any disposable containers where the Reusable Container system has not been rolled out, will be measured under Section 6.				
B5.1.1	Sect. 13.3	50-litre cardboard boxes, with plastic liners.	Number / month	2 850		
B5.1.2	Sect. 13.3	140-litre cardboard boxes, with plastic liners.	Number / month	39 000		
<i>Note: Disposable Sharps Containers and Specican Containers to be supplied and distributed as part of the dual system will be measured under Section A2.</i>						
Total Monthly Costs for Section B5 – 3 Year Option (VAT Excluded):						
						x 2 months
Total Contract Costs for Section B5 – 3 Year Option (VAT Excluded):						

Section B6 – 3 Year Option: Collection, Transport, Treatment and Disposal of Waste collected in disposable Waste containers as part of dual HCW management system.

<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
B6.1	Pay Item 18.2	Total cost per kg for Waste collected in disposable containers forming part of the dual system: Total cost per kg of Waste (including the mass of the disposable containers) for the collection, transport, treatment and disposal of Waste, irrespective of the type of disposable container used.				
B6.1.1	Sect. 8.3	Total cost per kg of Waste in all disposable containers forming part of the dual system, excluding cost of containers.	Kg/month	125 000		

Total Monthly Costs for Section B6 – 3 Year Option (VAT Excluded):	
	x 2 months
Total Contract Costs for Section B6 – 3 Year Option (VAT Excluded):	

Summary of Rates & Quantities: Region B – 3 Year Option.	
Section B1:	Preliminary and General for all aspects of the Service.
Section B2:	Supply and Distribution of Disposable Containers.
Section B3:	Replacement of Reusable Containers lost or severely damaged during use by the Department.
Section B4:	Collection, Transport, Treatment and Disposal of Waste, including maintenance and distribution of reusable containers.
Section B5:	Supply and Distribution of Disposable Containers as part of dual HCW management system.
Section B6:	Collection, Transport, Treatment and Disposal of Waste collected in disposable Waste container system as part of dual HCW management system.
Total for all Sections - Region B – 3 Year Option (VAT Excluded)	
	VAT @ 14%
Total for all Sections - Region B – 3 Year Option (VAT Included)	

A6.4 Schedule of Rates & Quantities: Region C – 3 Year Option

Section C1 – 3 Year Option: Variable costs						
<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
C1.1	Pay Item 18.4 Annex A4.2	Training: Rendering ongoing training and capacity building throughout the Services Period in accordance with the Training Programme.	Training Day	240		
Sub-Total 1 for Training (VAT Excluded):						
C1.2	Pay Item 18.3	Waste Durable Items: Supply and installation of wall and nursing trolley brackets and baskets as well as freestanding racks for disposable Waste containers and liners.				
C1.2.1	Annex A1.1.5	Wall bracket for Sharps Container Type B (Mild steel).	Number	365		
C1.2.2	Annex A1.1.5	Wall bracket for Sharps Container Type B (Stainless steel).	Number	40		
C1.2.3	Annex A1.1.5	Wall bracket for Sharps Container Type C (Mild steel).	Number	120		
C1.2.4	Annex A1.1.5	Wall bracket for Sharps Container Type C (Stainless steel).	Number	15		
C1.2.5	Annex A1.1.5	Nursing trolley bracket for Sharps Container Type B (Mild steel).	Number	280		
C1.2.6	Annex A1.1.5	Nursing trolley bracket for Sharps Container Type B (Stainless steel).	Number	30		
C1.2.7	Annex A1.2.5	Wall bracket for Specican Container Type F (Mild steel).	Number	25		
C1.2.8	Annex A1.2.5	Wall bracket for Specican Container Type F (Stainless steel).	Number	5		
C1.2.9	Annex A1.3.5	Wall basket for Liner Type K1 (Mild steel).	Number	230		
C1.2.10	Annex A1.3.5	Wall basket for Liner Type K1 (Stainless steel).	Number	30		
C1.2.11	Annex A1.3.5	Nursing trolley basket for Liner Type K1 (Mild steel).	Number	270		
C1.2.12	Annex A1.3.5	Nursing trolley basket for Liner Type K1 (Stainless steel).	Number	30		
C1.2.13	Annex A1.3.5	Freestanding Rack for Liner Type L1 (Mild steel).	Number	140		
C1.2.14	Annex A1.3.5	Freestanding Rack for Liner Type L1 (Stainless steel with 4 wheels, 1 brake).	Number	30		
C1.2.15	Annex A1.3.5	Freestanding Rack for Liner Type L1 (Mild steel with 4 wheels, 1 brake).	Number	140		
Sub-Total 2 for Waste Durable Items (VAT Excluded):						
C1.3	Pay Item 18.3	HCGW Durable Items (option): Supply and installation of wall baskets as well as freestanding racks for disposable HCGW Liners.				
C1.3.1	Annex A1.3.5	Wall basket for Liner Type K2 (Mild steel).	Number	460		

Technical Specification for Health Care Risk Waste Management Services in Gauteng

C1.3.2	Annex A1.3.5	Wall basket for Liner Type K2 (Stainless steel).	Number	60		
C1.3.3	Annex A1.3.5	Freestanding Rack for Liner Type L2 (Mild steel).	Number	560		
C1.3.4	Annex A1.3.5	Freestanding Rack for Liner Type L2 (Stainless steel with 4 wheels, 1 brake).	Number	60		
Sub-Total 3 for HCGW Durable Items (VAT Excluded):						
Total Contract Costs for Section C1 – 3 Year Option (VAT Excluded):						

Section C2 – 3 Year Option: Supply and Distribution of Disposable Containers.						
<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
C2.1	Pay Item 18.1	Disposable Sharps Containers: Monthly supply and delivery to the Facilities of the following types of <i>yellow</i> disposable Sharps Containers.				
C2.1.1	Annex A1.1	Type A: 1-4 litre.	Number / month	290		
C2.1.2	Annex A1.1	Type B: 4-8 litre.	Number / month	1 300		
C2.1.3	Annex A1.1	Type C: 8-15 litre.	Number / month	440		
C2.1.4	Annex A1.1	Type D: 15-25 litre Container.	Number / month	35		
C2.1.5	Annex A1.1	Type E: Tall Container.	Number / month	25		
C2.2	Pay Item 18.1	Disposable Specican Containers: Supply and delivery to the Facilities of the following types of <i>red</i> disposable Specican Containers:				
C2.2.1	Annex A1.2	Type F: 8-15 litre	Number / month	280		
C2.2.2	Annex A1.2	Type G: 15-25 litre	Number / month	100		
C2.2.3	Annex A1.2	Type H: 40-70 litre	Number / month	30		
C2.2.4	Annex A1.2	Type I: 80-100 litre limb Container.	Number / month	10		
C2.3	Pay Item 18.1	Waste Liners: Supply and delivery to the Facilities of the following types of <i>red</i> Waste liners:				
C2.3.1	Annex A1.3	Type J1: 12 litre	Number / month	9 200		
C2.3.2	Annex A1.3	Type K1: 30 litre	Number / month	13 800		
C2.3.3	Annex A1.3	Type L1: 85 litre	Number / month	12 500		
Sub-Total 1: Monthly Cost - Waste Disposable Items (VAT Excluded):						
C2.4	Pay Item 18.1	HCGW Liners (option): Supply and delivery to the Facilities of the following types of <i>black</i> HCGW liners:				

Technical Specification for Health Care Risk Waste Management Services in Gauteng

C2.4.1	Annex A1.3	Type K2: 30 litre	Number / month	27 600		
C2.4.2	Annex A1.3	Type L2: 85 litre	Number / month	25 000		
Sub-Total 2: Monthly Cost - HCGW Disposable Items (VAT Excluded):						
Total Monthly Costs for Section C2 – 3 Year Option (VAT Excluded):						
						x 34 (months)
Total Contract Costs for Section C2 – 3 Year Option (VAT Excluded):						

Section C3 – 3 Year Option: Replacement of Reusable Containers lost or severely damaged during use by the Department.						
<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
C3.1	Pay Item 18.7	Reusable Containers: Replacement of Reusable Containers lost or severely damaged during use by GDoH for the duration of the contract.				
C3.1.1	Sect. 7.1	Type A Reusable Containers as per specification	Number / month	1		
C3.1.2	Sect. 7.1	Type B Reusable Containers as per specification	Number / month	1		
Total Monthly Costs for Section C3 – 3 Year Option (VAT Excluded):						
						x 34 (months)
Total Contract Costs for Section C3 – 3 Year Option (VAT Excluded):						

Section C4 – 3 Year Option: Collection, Transport, Treatment and Disposal of Waste, including maintenance and distribution of reusable containers.						
<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
C4.1	Pay Item 18.2	Fixed volumetric cost for Waste: Cost for the collection, transport, treatment and disposal of Waste collected in the following types of containers. The cost is also to include for the cleansing and disinfection of reusable containers, including supply of cable ties.				
C4.1.1	Sect. 8.3	Volume collected in Type A Reusable Containers.	cub.m/month	330		
C4.1.2	Sect. 8.3	Volume collected in Type B Reusable Containers.	cub.m/month	1 150		
C4.2	Pay Item 18.2	Extra-over mass cost for Waste: Extra-over cost to Items A4.1.1 or A4.1.2 per kg of Waste (collected in Reusable Containers only) for the collection, transport, treatment and disposal of Waste, irrespective of the type of reusable container used.				
C4.2.1	Sect. 5.6	Extra over cost per kg of General Infectious Waste.	Kg/month	93 000		
C4.2.2	Sect. 5.6	Extra over cost per kg of Pathological Waste.	Kg/month	2 900		

Technical Specification for Health Care Risk Waste Management Services in Gauteng

C4.2.3	Sect. 5.6	Extra over cost per kg of Chemical / Pharmaceutical Waste.	Kg/month	2 900		
C4.3	Pay Item 18.2	Waste collected in disposable containers: All inclusive cost measured in kg (including the container mass) of Waste collected in disposable containers for the collection, transport, treatment and disposal of Waste, irrespective of the type of disposable container used.				
C4.3.1	Sect. 5.6	Cost per kg of General Infectious Waste.	Kg/month	11 500		
C4.3.2	Sect. 5.6	Cost per kg of Pathological Waste.	Kg/month	2 900		
C4.3.3	Sect. 5.6	Cost per kg of Chemical / Pharmaceutical Waste.	Kg/month	2 900		
Total Monthly Costs for Section C4 – 3 Year Option (VAT Excluded):						
						x 34 (months)
Total Contract Costs for Section C4 – 3 Year Option (VAT Excluded):						

Section C5 – 3 Year Option: Supply and Distribution of disposable Waste containers as part of dual HCW management system.

<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
C5.1	Pay Item 18.1	Disposable cardboard boxes: Supply and distribution as part of the dual system of the following sizes disposable cardboard boxes, including plastic liners, tape and liner ties, to all Facilities where the Reusable Container system has not been rolled out yet. Collection, transport, treatment and disposal of waste collected in any disposable containers where the Reusable Container system has not been rolled out, will be measured under Section 6.				
C5.1.1	Sect. 13.3	50-litre cardboard boxes, with plastic liners.	Number / month	2 850		
C5.1.2	Sect. 13.3	140-litre cardboard boxes, with plastic liners.	Number / month	39 000		
<i>Note: Disposable Sharps Containers and Specican Containers to be supplied and distributed as part of the dual system will be measured under Section A2.</i>						
Total Monthly Costs for Section C5 – 3 Year Option (VAT Excluded):						
						x 2 months
Total Contract Costs for Section C5 – 3 Year Option (VAT Excluded):						

Section C6 – 3 Year Option: Collection, Transport, Treatment and Disposal of Waste collected in disposable Waste containers as part of dual HCW management system.

<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
C6.1	Pay Item 18.2	Total cost per kg for Waste collected in disposable containers forming part of the dual system: Total cost per kg of Waste (including the mass of the disposable containers) for the collection, transport, treatment and disposal of Waste, irrespective of the type of disposable container used.				
C6.1.1	Sect. 8.3	Total cost per kg of Waste in all disposable containers forming part of the dual system, excluding cost of containers.	Kg/month	115 000		

Total Monthly Costs for Section C6 – 3 Year Option (VAT Excluded):	
	x 2 months
Total Contract Costs for Section C6 – 3 Year Option (VAT Excluded):	

Summary of Rates & Quantities: Region C – 3 Year Option.	
Section C1:	Preliminary and General for all aspects of the Service.
Section C2:	Supply and Distribution of Disposable Containers.
Section C3:	Replacement of Reusable Containers lost or severely damaged during use by the Department.
Section C4:	Collection, Transport, Treatment and Disposal of Waste, including maintenance and distribution of reusable containers.
Section C5:	Supply and Distribution of Disposable Containers as part of dual HCW management system.
Section C6:	Collection, Transport, Treatment and Disposal of Waste collected in disposable Waste container system as part of dual HCW management system.
Total for all Sections - Region C – 3 Year Option (VAT Excluded)	
	VAT @ 14%
Total for all Sections - Region C – 3 Year Option (VAT Included)	

A6.5 Discount offer for increased Scope of Work (3-Year Option)

Should more than one of the 3 Regions be awarded to(Name of Tenderer), an across-the-board discount of% (.....percent) is offered on all of the affected unit rates presented above.

.....
Signed:

.....
Date:

A6.6 Schedule of Rates & Quantities: Region A – 5 Year Option

Section A1 - 5 Year Option: Variable costs						
<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
A1.1	Pay Item 18.4 Annex A4.2	Training: Rendering ongoing training and capacity building throughout the Services Period in accordance with the Training Programme.	Training Day	840		
Sub-Total 1 for Training (VAT Excluded):						
A1.2	Pay Item 18.3	Waste Durable Items: Supply and installation of wall and nursing trolley brackets and baskets as well as freestanding racks for disposable Waste containers and liners.				
A1.2.1	Annex A1.1.5	Wall bracket for Sharps Container Type B (Mild steel).	Number	400		
A1.2.2	Annex A1.1.5	Wall bracket for Sharps Container Type B (Stainless steel).	Number	45		
A1.2.3	Annex A1.1.5	Wall bracket for Sharps Container Type C (Mild steel).	Number	130		
A1.2.4	Annex A1.1.5	Wall bracket for Sharps Container Type C (Stainless steel).	Number	20		
A1.2.5	Annex A1.1.5	Nursing trolley bracket for Sharps Container Type B (Mild steel).	Number	230		
A1.2.6	Annex A1.1.5	Nursing trolley bracket for Sharps Container Type B (Stainless steel).	Number	30		
A1.2.7	Annex A1.2.5	Wall bracket for Specican Container Type F (Mild steel).	Number	30		
A1.2.8	Annex A1.2.5	Wall bracket for Specican Container Type F (Stainless steel).	Number	5		
A1.2.9	Annex A1.3.5	Wall basket for Liner Type K1 (Mild steel).	Number	230		
A1.2.10	Annex A1.3.5	Wall basket for Liner Type K1 (Stainless steel).	Number	30		
A1.2.11	Annex A1.3.5	Nursing trolley basket for Liner Type K1 (Mild steel).	Number	290		
A1.2.12	Annex A1.3.5	Nursing trolley basket for Liner Type K1 (Stainless steel).	Number	30		
A1.2.13	Annex A1.3.5	Freestanding Rack for Liner Type L1 (Mild steel).	Number	150		
A1.2.14	Annex A1.3.5	Freestanding Rack for Liner Type L1 (Stainless steel with 4 wheels, 1 brake).	Number	40		
A1.2.15	Annex A1.3.5	Freestanding Rack for Liner Type L1 (Mild steel with 4 wheels, 1 brake).	Number	150		
Sub-Total 2 for Waste Durable Items (VAT Excluded):						
A1.3	Pay Item 18.3	HCGW Durable Items (option): Supply and installation of wall baskets as well as freestanding racks for disposable HCGW Liners.				
A1.3.1	Annex A1.3.5	Wall basket for Liner Type K2 (Mild steel).	Number	460		

Technical Specification for Health Care Risk Waste Management Services in Gauteng

A1.3.2	Annex A1.3.5	Wall basket for Liner Type K2 (Stainless steel).	Number	60		
A1.3.3	Annex A1.3.5	Freestanding Rack for Liner Type L2 (Mild steel).	Number	600		
A1.3.4	Annex A1.3.5	Freestanding Rack for Liner Type L2 (Stainless steel with 4 wheels, 1 brake).	Number	80		
Sub-Total 3 for HCGW Durable Items (VAT Excluded):						
Total Contract Costs for Section A1 - 5 Year Option (VAT Excluded):						

Section A2 - 5 Year Option: Supply and Distribution of Disposable Containers.						
<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
A2.1	Pay Item 18.1	Disposable Sharps Containers: Monthly supply and delivery to the Facilities of the following types of <i>yellow</i> disposable Sharps Containers.				
A2.1.1	Annex A1.1	Type A: 1-4 litre.	Number / month	320		
A2.1.2	Annex A1.1	Type B: 4-8 litre.	Number / month	1 450		
A2.1.3	Annex A1.1	Type C: 8-15 litre.	Number / month	480		
A2.1.4	Annex A1.1	Type D: 15-25 litre Container.	Number / month	40		
A2.1.5	Annex A1.1	Type E: Tall Container.	Number / month	25		
A2.2	Pay Item 18.1	Disposable Specican Containers: Supply and delivery to the Facilities of the following types of <i>red</i> disposable Specican Containers:				
A2.2.1	Annex A1.2	Type F: 8-15 litre	Number / month	300		
A2.2.2	Annex A1.2	Type G: 15-25 litre	Number / month	100		
A2.2.3	Annex A1.2	Type H: 40-70 litre	Number / month	30		
A2.2.4	Annex A1.2	Type I: 80-100 litre limb Container.	Number / month	10		
A2.3	Pay Item 18.1	Waste Liners: Supply and delivery to the Facilities of the following types of <i>red</i> Waste liners:				
A2.3.1	Annex A1.3	Type J1: 12 litre	Number / month	10 200		
A2.3.2	Annex A1.3	Type K1: 30 litre	Number / month	15 250		
A2.3.3	Annex A1.3	Type L1: 85 litre	Number / month	13 800		
Sub-Total 1: Monthly Cost - Waste Disposable Items (VAT Excluded):						

A2.4	Pay Item 18.1	HCGW Liners (option): Supply and delivery to the Facilities of the following types of <i>black</i> HCGW liners:				
A2.4.1	Annex A1.3	Type K2: 30 litre	Number / month	30 500		
A2.4.2	Annex A1.3	Type L2: 85 litre	Number / month	27 600		
Sub-Total 2: Monthly Cost - HCGW Disposable Items (VAT Excluded):						
Total Monthly Costs for Section A2 - 5 Year Option (VAT Excluded):						
						x 58 (months)
Total Contract Costs for Section A2 - 5 Year Option (VAT Excluded):						

Section A3 - 5 Year Option: Replacement of Reusable Containers lost or severely damaged during use by the Department.						
<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
A3.1	Pay Item 18.7	Reusable Containers: Replacement of Reusable Containers lost or severely damaged during use by GDoH for the duration of the contract.				
A3.1.1	Sect. 7.1	Type A Reusable Containers as per specification	Number / month	1		
A3.1.2	Sect. 7.1	Type B Reusable Containers as per specification	Number / month	1		
Total Monthly Costs for Section A3 - 5 Year Option (VAT Excluded):						
						x 58 (months)
Total Contract Costs for Section A3 - 5 Year Option (VAT Excluded):						

Section A4 - 5 Year Option: Collection, Transport, Treatment and Disposal of Waste, including maintenance and distribution of reusable containers.						
<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
A4.1	Pay Item 18.2	Fixed volumetric cost for Waste: Cost for the collection, transport, treatment and disposal of Waste collected in the following types of containers. The cost is also to include for the cleansing and disinfection of reusable containers, including supply of cable ties.				
A4.1.1	Sect. 8.3	Volume collected in Type A Reusable Containers.	cub.m/month	465		
A4.1.2	Sect. 8.3	Volume collected in Type B Reusable Containers.	cub.m/month	1 620		
A4.2	Pay Item 18.2	Extra-over mass cost for Waste: Extra-over cost to Items A4.1.1 or A4.1.2 per kg of Waste (collected in Reusable Containers only) for the collection, transport, treatment and disposal of Waste, irrespective of the type of reusable container used.				
A4.2.1	Sect. 5.6	Extra over cost per kg of General Infectious Waste.	Kg/month	131 000		

Technical Specification for Health Care Risk Waste Management Services in Gauteng

A4.2.2	Sect. 5.6	Extra over cost per kg of Pathological Waste.	Kg/month	4 000		
A4.2.3	Sect. 5.6	Extra over cost per kg of Chemical / Pharmaceutical Waste.	Kg/month	4 000		
A4.3	Pay Item 18.2	Waste collected in disposable containers: All inclusive cost measured in kg (including the container mass) of Waste collected in disposable containers for the collection, transport, treatment and disposal of Waste, irrespective of the type of disposable container used.				
A4.3.1	Sect. 5.6	Cost per kg of General Infectious Waste.	Kg/month	16 200		
A4.3.2	Sect. 5.6	Cost per kg of Pathological Waste.	Kg/month	4 000		
A4.3.3	Sect. 5.6	Cost per kg of Chemical / Pharmaceutical Waste.	Kg/month	4 000		
Total Monthly Costs for Section A4 - 5 Year Option (VAT Excluded):						
						x 58 (months)
Total Contract Costs for Section A4 - 5 Year Option (VAT Excluded):						

Section A5 - 5 Year Option: Supply and Distribution of disposable Waste containers as part of dual HCW management system.

<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
A5.1	Pay Item 18.1	Disposable cardboard boxes: Supply and distribution as part of the dual system of the following sizes disposable cardboard boxes, including plastic liners, tape and liner ties, to all Facilities where the Reusable Container system has not been rolled out yet. Collection, transport, treatment and disposal of waste collected in any disposable containers where the Reusable Container system has not been rolled out, will be measured under Section 6.				
A5.1.1	Sect. 13.3	50-litre cardboard boxes, with plastic liners.	Number / month	2 850		
A5.1.2	Sect. 13.3	140-litre cardboard boxes, with plastic liners.	Number / month	39 000		
<i>Note: Disposable Sharps Containers and Specican Containers to be supplied and distributed as part of the dual system will be measured under Section A2.</i>						
Total Monthly Costs for Section A5 - 5 Year Option (VAT Excluded):						
						x 2 months
Total Contract Costs for Section A5 - 5 Year Option (VAT Excluded):						

Section A6 - 5 Year Option: Collection, Transport, Treatment and Disposal of Waste collected in disposable Waste containers as part of dual HCW management system.

<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
A6.1	Pay Item 18.2	Total cost per kg for Waste collected in disposable containers forming part of the dual system: Total cost per kg of Waste (including the mass of the disposable containers) for the collection, transport, treatment and disposal of Waste, irrespective of the type of disposable container used.				
A6.1.1	Sect. 8.3	Total cost per kg of Waste in all disposable containers forming part of the dual system, excluding cost of containers.	Kg/month	162 000		

Total Monthly Costs for Section A6 - 5 Year Option (VAT Excluded):	
	x 2 months
Total Contract Costs for Section A6 - 5 Year Option (VAT Excluded):	

Summary of Rates & Quantities: Region A – 5 Year Option.		
Section A1:	Preliminary and General for all aspects of the Service.	
Section A2:	Supply and Distribution of Disposable Containers.	
Section A3:	Replacement of Reusable Containers lost or severely damaged during use by the Department.	
Section A4:	Collection, Transport, Treatment and Disposal of Waste, including maintenance and distribution of reusable containers.	
Section A5:	Supply and Distribution of Disposable Containers as part of dual HCW management system.	
Section A6:	Collection, Transport, Treatment and Disposal of Waste collected in disposable Waste container system as part of dual HCW management system.	
Total for all Sections - Region A – 5 Year Option (VAT Excluded)		
		VAT @ 14%
Total for all Sections - Region A – 5 Year Option (VAT Included):		

A6.7 Schedule of Rates & Quantities: Region B – 5 Year Option

Section B1 - 5 Year Option: Variable costs						
<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
B1.1	Pay Item 18.4 Annex A4.2	Training: Rendering ongoing training and capacity building throughout the Services Period in accordance with the Training Programme.	Training Day	800		
Sub-Total 1 for Training (VAT Excluded):						
B1.2	Pay Item 18.3	Waste Durable Items: Supply and installation of wall and nursing trolley brackets and baskets as well as freestanding racks for disposable Waste containers and liners.				
B1.2.1	Annex A1.1.5	Wall bracket for Sharps Container Type B (Mild steel).	Number	300		
B1.2.2	Annex A1.1.5	Wall bracket for Sharps Container Type B (Stainless steel).	Number	30		
B1.2.3	Annex A1.1.5	Wall bracket for Sharps Container Type C (Mild steel).	Number	100		
B1.2.4	Annex A1.1.5	Wall bracket for Sharps Container Type C (Stainless steel).	Number	10		
B1.2.5	Annex A1.1.5	Nursing trolley bracket for Sharps Container Type B (Mild steel).	Number	225		
B1.2.6	Annex A1.1.5	Nursing trolley bracket for Sharps Container Type B (Stainless steel).	Number	30		
B1.2.7	Annex A1.2.5	Wall bracket for Specican Container Type F (Mild steel).	Number	25		
B1.2.8	Annex A1.2.5	Wall bracket for Specican Container Type F (Stainless steel).	Number	5		
B1.2.9	Annex A1.3.5	Wall basket for Liner Type K1 (Mild steel).	Number	160		
B1.2.10	Annex A1.3.5	Wall basket for Liner Type K1 (Stainless steel).	Number	20		
B1.2.11	Annex A1.3.5	Nursing trolley basket for Liner Type K1 (Mild steel).	Number	220		
B1.2.12	Annex A1.3.5	Nursing trolley basket for Liner Type K1 (Stainless steel).	Number	25		
B1.2.13	Annex A1.3.5	Freestanding Rack for Liner Type L1 (Mild steel).	Number	115		
B1.2.14	Annex A1.3.5	Freestanding Rack for Liner Type L1 (Stainless steel with 4 wheels, 1 brake).	Number	25		
B1.2.15	Annex A1.3.5	Freestanding Rack for Liner Type L1 (Mild steel with 4 wheels, 1 brake).	Number	115		
Sub-Total 2 for Waste Durable Items (VAT Excluded):						
B1.3	Pay Item 18.3	HCGW Durable Items (option): Supply and installation of wall baskets as well as freestanding racks for disposable HCGW Liners.				
B1.3.1	Annex A1.3.5	Wall basket for Liner Type K2 (Mild steel).	Number	320		

Technical Specification for Health Care Risk Waste Management Services in Gauteng

B1.3.2	Annex A1.3.5	Wall basket for Liner Type K2 (Stainless steel).	Number	40		
B1.3.3	Annex A1.3.5	Freestanding Rack for Liner Type L2 (Mild steel).	Number	460		
B1.3.4	Annex A1.3.5	Freestanding Rack for Liner Type L2 (Stainless steel with 4 wheels, 1 brake).	Number	50		
Sub-Total 3 for HCGW Durable Items (VAT Excluded):						
Total Contract Costs for Section B1 - 5 Year Option (VAT Excluded):						

Section B2 - 5 Year Option: Supply and Distribution of Disposable Containers.						
<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
B2.1	Pay Item 18.1	Disposable Sharps Containers: Monthly supply and delivery to the Facilities of the following types of <i>yellow</i> disposable Sharps Containers.				
B2.1.1	Annex A1.1	Type A: 1-4 litre.	Number / month	240		
B2.1.2	Annex A1.1	Type B: 4-8 litre.	Number / month	1 100		
B2.1.3	Annex A1.1	Type C: 8-15 litre.	Number / month	360		
B2.1.4	Annex A1.1	Type D: 15-25 litre Container.	Number / month	30		
B2.1.5	Annex A1.1	Type E: Tall Container.	Number / month	20		
B2.2	Pay Item 18.1	Disposable Specican Containers: Supply and delivery to the Facilities of the following types of <i>red</i> disposable Specican Containers:				
B2.2.1	Annex A1.2	Type F: 8-15 litre	Number / month	225		
B2.2.2	Annex A1.2	Type G: 15-25 litre	Number / month	80		
B2.2.3	Annex A1.2	Type H: 40-70 litre	Number / month	25		
B2.2.4	Annex A1.2	Type I: 80-100 litre limb Container.	Number / month	10		
B2.3	Pay Item 18.1	Waste Liners: Supply and delivery to the Facilities of the following types of <i>red</i> Waste liners:				
B2.3.1	Annex A1.3	Type J1: 12 litre	Number / month	7 600		
B2.3.2	Annex A1.3	Type K1: 30 litre	Number / month	11 400		
B2.3.3	Annex A1.3	Type L1: 85 litre	Number / month	10 300		
Sub-Total 1: Monthly Cost - Waste Disposable Items (VAT Excluded):						

B2.4	Pay Item 18.1	HCGW Liners (option): Supply and delivery to the Facilities of the following types of <i>black</i> HCGW liners:				
B2.4.1	Annex A1.3	Type K2: 30 litre	Number / month	22 800		
B2.4.2	Annex A1.3	Type L2: 85 litre	Number / month	20 600		
Sub-Total 2: Monthly Cost - HCGW Disposable Items (VAT Excluded):						
Total Monthly Costs for Section B2 - 5 Year Option (VAT Excluded):						
						x 58 (months)
Total Contract Costs for Section B2 - 5 Year Option (VAT Excluded):						

Section B3 - 5 Year Option: Replacement of Reusable Containers lost or severely damaged during use by the Department.						
Item No	Ref.	Item Description	Unit	Quantity	Rate (Rand)	Amount (Rand)
B3.1	Pay Item 18.7	Reusable Containers: Replacement of Reusable Containers lost or severely damaged during use by GDoH for the duration of the contract.				
B3.1.1	Sect. 7.1	Type A Reusable Containers as per specification	Number / month	1		
B3.1.2	Sect. 7.1	Type B Reusable Containers as per specification	Number / month	1		
Total Monthly Costs for Section B3 - 5 Year Option (VAT Excluded):						
						x 58 (months)
Total Contract Costs for Section B3 - 5 Year Option (VAT Excluded):						

Section B4 - 5 Year Option: Collection, Transport, Treatment and Disposal of Waste, including maintenance and distribution of reusable containers.						
Item No	Ref.	Item Description	Unit	Quantity	Rate (Rand)	Amount (Rand)
B4.1	Pay Item 18.2	Fixed volumetric cost for Waste: Cost for the collection, transport, treatment and disposal of Waste collected in the following types of containers. The cost is also to include for the cleansing and disinfection of reusable containers, including supply of cable ties.				
B4.1.1	Sect. 8.3	Volume collected in Type A Reusable Containers.	cub.m/month	360		
B4.1.2	Sect. 8.3	Volume collected in Type B Reusable Containers.	cub.m/month	1 250		
B4.2	Pay Item 18.2	Extra-over mass cost for Waste: Extra-over cost to Items A4.1.1 or A4.1.2 per kg of Waste (collected in Reusable Containers only) for the collection, transport, treatment and disposal of Waste, irrespective of the type of reusable container used.				
B4.2.1	Sect. 5.6	Extra over cost per kg of General Infectious Waste.	Kg/month	100 000		

Technical Specification for Health Care Risk Waste Management Services in Gauteng

B4.2.2	Sect. 5.6	Extra over cost per kg of Pathological Waste.	Kg/month	3 200		
B4.2.3	Sect. 5.6	Extra over cost per kg of Chemical / Pharmaceutical Waste.	Kg/month	3 200		
B4.3	Pay Item 18.2	Waste collected in disposable containers: All inclusive cost measured in kg (including the container mass) of Waste collected in disposable containers for the collection, transport, treatment and disposal of Waste, irrespective of the type of disposable container used.				
B4.3.1	Sect. 5.6	Cost per kg of General Infectious Waste.	Kg/month	12 500		
B4.3.2	Sect. 5.6	Cost per kg of Pathological Waste.	Kg/month	3 200		
B4.3.3	Sect. 5.6	Cost per kg of Chemical / Pharmaceutical Waste.	Kg/month	3 200		
Total Monthly Costs for Section B4 - 5 Year Option (VAT Excluded):						
						x 58 (months)
Total Contract Costs for Section B4 - 5 Year Option (VAT Excluded):						

Section B5 - 5 Year Option: Supply and Distribution of disposable Waste containers as part of dual HCW management system.

<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
B5.1	Pay Item 18.1	Disposable cardboard boxes: Supply and distribution as part of the dual system of the following sizes disposable cardboard boxes, including plastic liners, tape and liner ties, to all Facilities where the Reusable Container system has not been rolled out yet. Collection, transport, treatment and disposal of waste collected in any disposable containers where the Reusable Container system has not been rolled out, will be measured under Section 6.				
B5.1.1	Sect. 13.3	50-litre cardboard boxes, with plastic liners.	Number / month	2 850		
B5.1.2	Sect. 13.3	140-litre cardboard boxes, with plastic liners.	Number / month	39 000		
<i>Note: Disposable Sharps Containers and Specican Containers to be supplied and distributed as part of the dual system will be measured under Section A2.</i>						
Total Monthly Costs for Section B5 - 5 Year Option (VAT Excluded):						
						x 2 months
Total Contract Costs for Section B5 - 5 Year Option (VAT Excluded):						

Section B6 - 5 Year Option: Collection, Transport, Treatment and Disposal of Waste collected in disposable Waste containers as part of dual HCW management system.

<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
BA6.1	Pay Item 18.2	Total cost per kg for Waste collected in disposable containers forming part of the dual system: Total cost per kg of Waste (including the mass of the disposable containers) for the collection, transport, treatment and disposal of Waste, irrespective of the type of disposable container used.				
B6.1.1	Sect. 8.3	Total cost per kg of Waste in all disposable containers forming part of the dual system, excluding cost of containers.	Kg/month	125 000		

Total Monthly Costs for Section B6 - 5 Year Option (VAT Excluded):	
	x 2 months
Total Contract Costs for Section B6 - 5 Year Option (VAT Excluded):	

Summary of Rates & Quantities: Region B – 5 Year Option.		
Section B1:	Preliminary and General for all aspects of the Service.	
Section B2:	Supply and Distribution of Disposable Containers.	
Section B3:	Replacement of Reusable Containers lost or severely damaged during use by the Department.	
Section B4:	Collection, Transport, Treatment and Disposal of Waste, including maintenance and distribution of reusable containers.	
Section B5:	Supply and Distribution of Disposable Containers as part of dual HCW management system.	
Section B6:	Collection, Transport, Treatment and Disposal of Waste collected in disposable Waste container system as part of dual HCW management system.	
Total for all Sections - Region B – 5 Year Option (VAT Excluded)		
		VAT @ 14%
Total for all Sections - Region B – 5 Year Option (VAT Included):		

A6.8 Schedule of Rates & Quantities: Region C – 5 Year Option

Section C1 - 5 Year Option: Variable costs						
<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
C1.1	Pay Item 18.4 Annex A4.2	Training: Rendering ongoing training and capacity building throughout the Services Period in accordance with the Training Programme.	Training Day	400		
Sub-Total 1 for Training (VAT Excluded):						
C1.2	Pay Item 18.3	Waste Durable Items: Supply and installation of wall and nursing trolley brackets and baskets as well as freestanding racks for disposable Waste containers and liners.				
C1.2.1	Annex A1.1.5	Wall bracket for Sharps Container Type B (Mild steel).	Number	365		
C1.2.2	Annex A1.1.5	Wall bracket for Sharps Container Type B (Stainless steel).	Number	40		
C1.2.3	Annex A1.1.5	Wall bracket for Sharps Container Type C (Mild steel).	Number	120		
C1.2.4	Annex A1.1.5	Wall bracket for Sharps Container Type C (Stainless steel).	Number	15		
C1.2.5	Annex A1.1.5	Nursing trolley bracket for Sharps Container Type B (Mild steel).	Number	280		
C1.2.6	Annex A1.1.5	Nursing trolley bracket for Sharps Container Type B (Stainless steel).	Number	30		
C1.2.7	Annex A1.2.5	Wall bracket for Specican Container Type F (Mild steel).	Number	25		
C1.2.8	Annex A1.2.5	Wall bracket for Specican Container Type F (Stainless steel).	Number	5		
C1.2.9	Annex A1.3.5	Wall basket for Liner Type K1 (Mild steel).	Number	230		
C1.2.10	Annex A1.3.5	Wall basket for Liner Type K1 (Stainless steel).	Number	30		
C1.2.11	Annex A1.3.5	Nursing trolley basket for Liner Type K1 (Mild steel).	Number	270		
C1.2.12	Annex A1.3.5	Nursing trolley basket for Liner Type K1 (Stainless steel).	Number	30		
C1.2.13	Annex A1.3.5	Freestanding Rack for Liner Type L1 (Mild steel).	Number	140		
C1.2.14	Annex A1.3.5	Freestanding Rack for Liner Type L1 (Stainless steel with 4 wheels, 1 brake).	Number	30		
C1.2.15	Annex A1.3.5	Freestanding Rack for Liner Type L1 (Mild steel with 4 wheels, 1 brake).	Number	140		
Sub-Total 2 for Waste Durable Items (VAT Excluded):						
C1.3	Pay Item 18.3	HCGW Durable Items (option): Supply and installation of wall baskets as well as freestanding racks for disposable HCGW Liners.				
C1.3.1	Annex A1.3.5	Wall basket for Liner Type K2 (Mild steel).	Number	460		

Technical Specification for Health Care Risk Waste Management Services in Gauteng

C1.3.2	Annex A1.3.5	Wall basket for Liner Type K2 (Stainless steel).	Number	60		
C1.3.3	Annex A1.3.5	Freestanding Rack for Liner Type L2 (Mild steel).	Number	560		
C1.3.4	Annex A1.3.5	Freestanding Rack for Liner Type L2 (Stainless steel with 4 wheels, 1 brake).	Number	60		
Sub-Total 3 for HCGW Durable Items (VAT Excluded):						
Total Contract Costs for Section C1 - 5 Year Option (VAT Excluded):						

Section C2 - 5 Year Option: Supply and Distribution of Disposable Containers.						
<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
C2.1	Pay Item 18.1	Disposable Sharps Containers: Monthly supply and delivery to the Facilities of the following types of <i>yellow</i> disposable Sharps Containers.				
C2.1.1	Annex A1.1	Type A: 1-4 litre.	Number / month	290		
C2.1.2	Annex A1.1	Type B: 4-8 litre.	Number / month	1 300		
C2.1.3	Annex A1.1	Type C: 8-15 litre.	Number / month	440		
C2.1.4	Annex A1.1	Type D: 15-25 litre Container.	Number / month	35		
C2.1.5	Annex A1.1	Type E: Tall Container.	Number / month	25		
C2.2	Pay Item 18.1	Disposable Specican Containers: Supply and delivery to the Facilities of the following types of <i>red</i> disposable Specican Containers:				
C2.2.1	Annex A1.2	Type F: 8-15 litre	Number / month	280		
C2.2.2	Annex A1.2	Type G: 15-25 litre	Number / month	100		
C2.2.3	Annex A1.2	Type H: 40-70 litre	Number / month	30		
C2.2.4	Annex A1.2	Type I: 80-100 litre limb Container.	Number / month	10		
C2.3	Pay Item 18.1	Waste Liners: Supply and delivery to the Facilities of the following types of <i>red</i> Waste liners:				
C2.3.1	Annex A1.3	Type J1: 12 litre	Number / month	9 200		
C2.3.2	Annex A1.3	Type K1: 30 litre	Number / month	13 800		
C2.3.3	Annex A1.3	Type L1: 85 litre	Number / month	12 500		
Sub-Total 1: Monthly Cost - Waste Disposable Items (VAT Excluded):						

C2.4	Pay Item 18.1	HCGW Liners (option): Supply and delivery to the Facilities of the following types of <i>black</i> HCGW liners:				
C2.4.1	Annex A1.3	Type K2: 30 litre	Number / month	27 600		
C2.4.2	Annex A1.3	Type L2: 85 litre	Number / month	25 000		
Sub-Total 2: Monthly Cost - HCGW Disposable Items (VAT Excluded):						
Total Monthly Costs for Section C2 - 5 Year Option (VAT Excluded):						
						x 58 (months)
Total Contract Costs for Section C2 - 5 Year Option (VAT Excluded):						

Section C3 - 5 Year Option: Replacement of Reusable Containers lost or severely damaged during use by the Department.						
Item No	Ref.	Item Description	Unit	Quantity	Rate (Rand)	Amount (Rand)
C3.1	Pay Item 18.7	Reusable Containers: Replacement of Reusable Containers lost or severely damaged during use by GDoH for the duration of the contract.				
C3.1.1	Sect. 7.1	Type A Reusable Containers as per specification	Number / month	1		
C3.1.2	Sect. 7.1	Type B Reusable Containers as per specification	Number / month	1		
Total Monthly Costs for Section C3 - 5 Year Option (VAT Excluded):						
						x 58 (months)
Total Contract Costs for Section C3 - 5 Year Option (VAT Excluded):						

Section C4 - 5 Year Option: Collection, Transport, Treatment and Disposal of Waste, including maintenance and distribution of reusable containers.						
Item No	Ref.	Item Description	Unit	Quantity	Rate (Rand)	Amount (Rand)
C4.1	Pay Item 18.2	Fixed volumetric cost for Waste: Cost for the collection, transport, treatment and disposal of Waste collected in the following types of containers. The cost is also to include for the cleansing and disinfection of reusable containers, including supply of cable ties.				
C4.1.1	Sect. 8.3	Volume collected in Type A Reusable Containers.	cub.m/month	330		
C4.1.2	Sect. 8.3	Volume collected in Type B Reusable Containers.	cub.m/month	1 150		
C4.2	Pay Item 18.2	Extra-over mass cost for Waste: Extra-over cost to Items A4.1.1 or A4.1.2 per kg of Waste (collected in Reusable Containers only) for the collection, transport, treatment and disposal of Waste, irrespective of the type of reusable container used.				
C4.2.1	Sect. 5.6	Extra over cost per kg of General Infectious Waste.	Kg/month	93 000		

Technical Specification for Health Care Risk Waste Management Services in Gauteng

C4.2.2	Sect. 5.6	Extra over cost per kg of Pathological Waste.	Kg/month	2 900		
C4.2.3	Sect. 5.6	Extra over cost per kg of Chemical / Pharmaceutical Waste.	Kg/month	2 900		
C4.3	Pay Item 18.2	Waste collected in disposable containers: All inclusive cost measured in kg (including the container mass) of Waste collected in disposable containers for the collection, transport, treatment and disposal of Waste, irrespective of the type of disposable container used.				
C4.3.1	Sect. 5.6	Cost per kg of General Infectious Waste.	Kg/month	11 500		
C4.3.2	Sect. 5.6	Cost per kg of Pathological Waste.	Kg/month	2 900		
C4.3.3	Sect. 5.6	Cost per kg of Chemical / Pharmaceutical Waste.	Kg/month	2 900		
Total Monthly Costs for Section C4 - 5 Year Option (VAT Excluded):						
						x 58 (months)
Total Contract Costs for Section C4 - 5 Year Option (VAT Excluded):						

Section C5 - 5 Year Option: Supply and Distribution of disposable Waste containers as part of dual HCW management system.

<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
C5.1	Pay Item 18.1	Disposable cardboard boxes: Supply and distribution as part of the dual system of the following sizes disposable cardboard boxes, including plastic liners, tape and liner ties, to all Facilities where the Reusable Container system has not been rolled out yet. Collection, transport, treatment and disposal of waste collected in any disposable containers where the Reusable Container system has not been rolled out, will be measured under Section 6.				
C5.1.1	Sect. 13.3	50-litre cardboard boxes, with plastic liners.	Number / month	2 850		
C5.1.2	Sect. 13.3	140-litre cardboard boxes, with plastic liners.	Number / month	39 000		
<i>Note: Disposable Sharps Containers and Specican Containers to be supplied and distributed as part of the dual system will be measured under Section A2.</i>						
Total Monthly Costs for Section C5 - 5 Year Option (VAT Excluded):						
						x 2 months
Total Contract Costs for Section C5 - 5 Year Option (VAT Excluded):						

Section C6 - 5 Year Option: Collection, Transport, Treatment and Disposal of Waste collected in disposable Waste containers as part of dual HCW management system.

<i>Item No</i>	<i>Ref.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate (Rand)</i>	<i>Amount (Rand)</i>
C6.1	Pay Item 18.2	Total cost per kg for Waste collected in disposable containers forming part of the dual system: Total cost per kg of Waste (including the mass of the disposable containers) for the collection, transport, treatment and disposal of Waste, irrespective of the type of disposable container used.				
C6.1.1	Sect. 8.3	Total cost per kg of Waste in all disposable containers forming part of the dual system, excluding cost of containers.	Kg/month	115 000		

Total Monthly Costs for Section C6 - 5 Year Option (VAT Excluded):	
	x 2 months
Total Contract Costs for Section C6 - 5 Year Option (VAT Excluded):	

Summary of Rates & Quantities: Region C – 5 Year Option.		
Section C1:	Preliminary and General for all aspects of the Service.	
Section C2:	Supply and Distribution of Disposable Containers.	
Section C3:	Replacement of Reusable Containers lost or severely damaged during use by the Department.	
Section C4:	Collection, Transport, Treatment and Disposal of Waste, including maintenance and distribution of reusable containers.	
Section C5:	Supply and Distribution of Disposable Containers as part of dual HCW management system.	
Section C6:	Collection, Transport, Treatment and Disposal of Waste collected in disposable Waste container system as part of dual HCW management system.	
Total for all Sections - Region C – 5 Year Option (VAT Excluded)		
		VAT @ 14%
Total for all Sections - Region C – 5 Year Option (VAT Included):		

A6.9 Discount offer for increased Scope of Work (5 Year Option)

Should more than one of the 3 Regions be awarded to(Name of Tenderer), an across-the-board discount of% (.....percent) is offered on all of the affected unit rates presented above.

.....
Signed:

.....
Date:

Annexure 7

GAUTENG REGULATIONS.

A7.1 Health Care Waste Management Regulations:

The Health Care Waste Management Regulations referred to in the Specification are those Regulations promulgated in terms of Section 24 of the Act, under Provincial Government Notice No. 3003 as published in Provincial Government Gazette No. 373, dated 11 September 2003 as amended.

A7.2 Waste Information Regulations:

The Waste Information Regulations referred to in the Specification are those Regulations promulgated in terms of Section 24 of the Act, under Provincial Government Notice No. 3002 as published in Provincial Government Gazette No. 373, dated 11 September 2003 as amended.

Annexure 8

BACKGROUND INFORMATION

Acts and Regulations

- The Constitution of the Republic of South Africa, Act 108 of 1996
- Future Developments
 - White Paper on Integrated Pollution and Waste Management for South Africa
 - The National Waste Management Strategy
 - Draft Regulations for the Control of Environmental Conditions Constituting a Danger to Health or Nuisance
- National Legislation
 - Atmospheric Pollution Prevention Act 45 of 1965
 - Environment Conservation Act 73 of 1989
 - Hazardous Substances Act 15 of 1973
 - Health Act 63 of 1977
 - Human Tissue Act 65 of 1983
 - National Environmental Management Act 107 of 1998
 - National Nuclear Regulator Act 47 of 1999
 - National Road Traffic Act 93 of 1996
 - National Water Act 36 of 1998
 - Nuclear Energy Act 46 of 1999
 - Occupational Health and Safety Act and Regulations – Act 85 of 1993
 - Medicines and Related Substances Control Act, 1965 (Act 101 of 1965);
 - National Nuclear Regulator Act, 1999 (act 47 of 1999);
 - National Waste Management Bill (Draft)
- Provincial Legislation
 - Local Government Ordinance
 - Gauteng Health Care Waste Management Regulations, as referred to in Annexure 7A
 - Gauteng Waste Information Regulations, as referred to in Annexure 7B
- Local Government
 - Waste Management By-laws of Johannesburg Metropolitan Council, Tswane Metropolitan Council, etc.
- The Common Law of Nuisance

Policies and Codes:

- Addressing the Health Care Waste problem in Gauteng – A Policy for Sustainable Health Care Waste Management - DACEL: November 2001
- Guidelines for Sustainable Health Care Waste Management – DACEL: Draft June 2002
- SANS 0228: Code of Practice on Hazardous Substances.
- SANS 0229: Code of Practice for the Packaging of Dangerous Goods for Road and Rail Transportation in South Africa.
- SANS 0233: Code of Practice for Intermediate Bulk Containers for Dangerous Substances.
- SANS 0248: Code of Practice for the Handling and Disposal of Waste Materials within Health Care Facilities –1993 (being revised 2003).
- “Minimum Requirements for Handling, Classification and Disposal of Hazardous Waste, Second Edition 1998”, Department of Water Affairs and Forestry.

- “Minimum Requirements for Waste Disposal by Landfill, Second Edition 1998”, Department of Water Affairs and Forestry.
- “Policy with regard to the Handling and Disposal of Fluorescent Tubes Collected in Large Quantities”, Department of Water Affairs and Forestry.
- “Policy on the Disposal of Medical Waste”, Department of Water Affairs and Forestry.
- United Nations Recommendations on the Transport of Dangerous Goods, Chapter 6.
- Environmental Policy on Waste Disposal.
- US Centre for Disease Control Standards.

Other Reports:

- Feasibility Study into the Possible Regionalisation of Medical Waste Treatment Facilities in Gauteng – DACEL 2000.
- Feasibility Study for Sustainable Health Care Waste Management Scenarios for Gauteng – DACEL: Draft 2002.
- Health Care Waste (HCW) Generation and Characterisation Study for Health and Treatment Facilities – DACEL 2003.
- Training Materials and Posters developed for the HCW Pilot Projects – DACEL 2003.
- Safe Management of Wastes from Health Care Activities - World Health Organisation 1999.