



AGRICULTURAL RESEARCH COUNCIL

SPECIFICATION FOR COLLECTION, TRANSPORTATION AND THERMAL DESTRUCTION OF BIOHAZARDOUS WASTE FROM ONDERSTERPOORT VETERINARY RESEARCH (OVR), FOR A PERIOD OF 12 MONTHS (1 YEAR)

Background

The ARC Onderstepoort Veterinary Research requires the services of a service provider who will render collection, transportation, disposal & thermal destruction of biohazardous laboratory waste, which will include, anatomical waste (carcasses and animal tissues), pharmaceutical waste, sharps waste, ash waste, chemical / Liquid waste, Fluorescent tubes from the main campus, Transboundary Animal Diseases Facility (Foot and Mouth Disease), Rabies laboratory and Kaalplaas farm.

The Transboundary Animal Disease Facility is a Biosafety level 3 (BSL-3) research facility mandated to conduct diagnostics, vaccine development and research on highly infectious animal diseases, including foot-and-mouth disease, African swine fever and other viral pathogens exotic to South Africa. Biohazardous waste generated at the facility are considered harmful to both animals and humans and poses significant risk of environmental contamination should it not be decontaminated and disposed of in an appropriate manner. These services are fundamental in ensuring health, safety, waste, legal obligation & minimizing the risk of pollution and biohazard infections. Rabies Laboratory is a Biosafety level 2 (BSL -2) research facility mandated to conduct diagnostics and research on lyssaviruses.

Inclusive in this request is also the removal and disposal of carcasses from EPV and Kaalplaas facilities.

The bidders are required to bill / price us per each load of collection or per tonnage (1000kg), even though the contract will run for 12 months. This is done to minimise uncertainty with regards to pricing (overpricing/under-pricing).

1. Legislative Requirements

1.1. Provide a valid Waste Management Licence in terms of Section 45 of the National Environment Management Waste Act 59/2008 (as amended) for hazardous waste as per following:

- Waste information registration number (**WIR number**). Proof of registration to be included with the bid proposal.
- Name of waste management company/person/entity
- The date of company registration
- Business Licence category
- The service provider should be the original licence holder & no third-party licences will be accepted.
- Provide proof of license as a hazardous goods transporter in terms of SANS 10406,
- If a bidder is not accredited for hazardous goods transportation, the bidder must sign and valid service level agreement contract/MOU with an accredited thermal treatment facility

1.2. Ensure that vehicles used for the collection and transportation of hazardous waste are constructed to ensure safety of goods during transportation and display mandatory signages. Documentation relating to the source, transportation and disposal of hazardous waste must be in accordance with the conditions of an accreditation permit or waste management licence issued to the “registered person/licence or permit holder” under the:

- National Road Traffic Act 93/1996
- Hazardous Substances Act 15/1973
- National Environmental Management: Waste Act 59/ 2008

as well as the requirements of any relevant South African National Standard (SANS) codes of the South African Bureau of Standards:

1.3. The bidders must provide valid letter of good standing issued by the Compensation Commissioner under the COIDA 130/1992

2. Expected Deliverables

- For the first collection, the service provider will be expected to bring along:
 - ✓ *5 x 100 litres sealable wheelie bins, properly labelled with proper lining materials, for collection of chemical waste, (once off).*
 - ✓ *3 x Steel sealable heavy-duty skips bins for incinerator and boiler ash waste, built with tight-fitting lids, gaskets, or anti-surge baffles to prevent leaks, and spills during storage and transport.*
 - ✓ *100 x 25 litres of clear square liquid waste drums for disposal of liquid waste.*
 - ✓ *The service provider will be expected to provide 10 x 600GSM PVC anti-fungal carcass and animal tissues bags which consist of a single layer PVC, which are welded together by means of high frequency to prevent blood from leaking through. The bottom and sides should be 100% waterproof, to prevent blood from leaking through. The lid of the carcass bags should be joined on three sides with a heavy duty YKK zip which includes two sliders. Every carcass bag should have re-enforced eyelets on the corners with rope ties to keep the bag upright while loading a carcass. Then the provisions will be made bi-monthly.*
- *Straight Bulb Pack Boxes: Long, rectangular cardboard containers (such as 4ft or 8ft options) lined with a heavy-duty, mercury-proof plastic liner to trap vapours and broken glass fluorescence tubes, sharp waste and other hazardous waste.*
- Upon collection of carcasses and animal tissues, service provider will be expected to provide body bags for infected or non-infected carcasses/animal tissues, to replace to used ones. unless if the situation permits otherwise. The is done to prevent transfer of carcass from one bag into the other.
- Biohazardous waste should be triple packages using biohazardous waste material / bags before collection and transportation. No poorly packaged waste bags will be allowed to leave ARC-OVR facilities.
- Supply and delivery: 142 litres (15kg weight capacity), and 7.5 kg ideal for high-volume bio-hazard waste disposal. Durable, corrugated cardboard box. Brightly marked with bio-hazard symbols and warnings for easy identification and compliance. Easy-to-assemble box with a secure flap-lock system to prevent accidental spillage. Compact and stackable when not in use for space efficiency. Pre-printed bio-hazard markings with designated sections for labelling and waste tracking.
- Bio-Hazardous Waste Adhesive Tape.
- Supply and delivery 2.5 litres of yellow plastic sharps container manufactured from quality plastic, which will be used for the safe disposal of sharps such as needles, scalpel blades and suture cutters. Well-marked to ensure safe handling and storage. With clip down lids.
- Supply and delivery **20L Red Specimen Containers** for the safe storage and transport of biological specimens and medical waste. **Capacity:** 20 litres, perfect for handling larger volumes of medical specimens or waste.
- Supply and delivery green pharmaceutical buckets for the disposal of expired medicines. Separate buckets shall be used basic medicine and stronger substances. Filled containers must be securely sealed and thermally destroyed through incineration.

- Supply and delivery Drip trays for secondary spill containment trays which is made of durable polyethylene material to stand up against harsh chemical leaks. **Dimensions should be 106 × 60 × 14 cm**
- Supply and delivery spill pallet, manufactured from Linear low-density polyethylene (LLDPE)
- It should be made from durable, chemical-resistant polypropylene for safe and long-lasting use, red colour with bio-hazard markings for easy identification and adherence to safety protocols. Leak-proof lid to prevent spills and contamination during transport.
- Upon collection of the Biohazardous waste, including carcasses, animal tissues and chemical waste, the service provider will be expected to replace filled bins/drums with empty temporally containments storage (bins/drum)
- Bi-monthly collection (once every two month), transportation & appropriate thermal treatment of biohazard waste including laboratory waste and carcasses.
- Carcasses will be collected and disposed on an ad hoc basis.
- Bins must be collected without transfer of biohazard waste to alternative storage/transportation vessels or vehicles. Replacement bins lining material must be provided upon collection of filled bins.
- Hazardous waste must be collected by an appropriate hazardous waste truck,
- Proper record keeping of monthly waste material collected and incinerated.
- Compliance with NEM: Waste Act, OHS Act 85/1993, and other legislative requirements.
- Provision of a destruction certificate from incineration of biohazard waste. No payment will be made without a disposal certificate.
- Appointed service provider will be expected to have competent workforce who are able to handle biohazardous waste, with valid certificates as proof of competency.
- Supply and delivery 70 x 240L Wheelie Bin (SABS Approved) (**10 x blue bin** for paper waste, cardboard, newspapers, and magazines, clean and dry, **10 x yellow bin** for plastic waste, empty bottles, and packaging, **15 x green bin** for general waste, organic matter, or general refuse, **10 x red bin** for hazardous or biomedical waste [such as chemicals, paints, or medical items], **10 x black bin** for glass waste or general household waste [non-recyclable refuse]. **10 x orange Bin:** Food waste or specialized packaging streams and **5 x light green bin** for cans and metal waste).

(See attached annexure A for more details)

Note: Collection of biohazardous waste will be done at designated collection points/stations, or at the waste generation points, which ever suitable.

3. Department of Agriculture Requirements (DOA)

- The biosecurity risk assessment to be performed by the ARC OVR regarding waste removal.

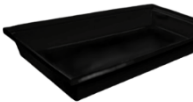
- The role of the service provider should be clearly defined in the waste removal system; this should include the roles and responsibilities of other services providers who might be contracted by the winning bidder regarding removal and disposal of waste.
- Each company roles contracted by the winning bidder should be thoroughly explained, this should include flow diagram/organogram which will illustrate each company's role and inter-linkage with main contractor.
- The role of ARC-OVR in playing its oversight role throughout the whole process up to the destruction of waste ~~should~~ be clearly indicated, this should include functions and auditing process of all aspects to ensure correct implementation of all the processes up to the destruction of the waste.
- Provision of Tshwane registration certificates for all the different companies involved in the waste management process.

4. Pricing Guide

Bidders are required to submit proposals as per the following pricing guide on the company letterhead:

Annexure A

No	Description	Campus/ division/ section	Pictures of the required items	Quantity	Frequency
1	Supply and delivery: 142 litres (15kg weight capacity), and 7.5 kg ideal for high-volume bio-hazard waste disposal. Durable, corrugated cardboard box. Brightly marked with bio-hazard symbols and warnings for easy identification and compliance. Easy-to-assemble box with a secure flap-lock system to prevent accidental spillage. Compact and stackable when not in use for space efficiency. Pre-printed bio-hazard markings with designated sections for labelling and waste tracking	OVR and TAD		200 boxes (100x15kg & 100x7.5kg)	Bi- Monthly
2	Bio-Hazardous Waste Adhesive Tape	OVR and TAD		200	Bi- Monthly
3	Supply and delivery 2.5 litres of yellow plastic sharps container manufactured from quality plastic, which will be used for the safe disposal of sharps such as needles, scalpel blades and suture cutters. Well-marked to ensure safe handling and storage. With clip down lids	OVR and TAD		50	Bi- Monthly

4	Supply and delivery 20L Red Specimen Containers for the safe storage and transport of biological specimens and medical waste. Capacity: 20 litres, perfect for handling larger volumes of medical specimens or waste. It should be made from durable, chemical-resistant polypropylene for safe and long-lasting use, red colour with bio-hazard markings for easy identification and adherence to safety protocols. Leak-proof lid to prevent spills and contamination during transport.	OVR and TAD		100	Bi- Monthly
5	Supply and delivery green pharmaceutical buckets for the disposal of expired medicines. Separate buckets shall be used basic medicine and stronger substances. Filled containers must be securely sealed and thermally destroyed through incineration.	OVR & Kaalplaas		20	Bi- Monthly
6	Supply and delivery spill pallet, manufactured from Linear low-density polyethylene (LLDPE)	OVR & TAD		30	Once off
7	Supply and delivery Drip trays for secondary spill containment trays which is made of durable polyethylene material to stand up against harsh chemical leaks. Dimensions should be 106 × 60 × 14 cm	OVR & TAD		50	Once off
8	Straight Bulb Pack Boxes: Long, rectangular cardboard containers (such as 4ft or 8ft options) lined with a heavy-duty, mercury-proof plastic liner to trap vapours and broken glass. <i>Example sizes:</i> A 4-foot box (12" x 12" x 48") typically holds around 70 lamps, while longer sizes handle different capacities	OVR/ TAD		15	Bi-monthly
9	The service provider will be expected to provide 10 x 600GSM PVC anti-fungal carcass and animal tissues bags which is consist of a single layer PVC, which are welded together by means of high frequency to prevent blood from leaking through. The bottom and sides should be 100% waterproof, to prevent blood from leaking through.	OVR/ TAD		10	Bi-monthly

	The lid of the carcass bags should be joined on three sides with a heavy duty YKK zip which includes two sliders. Every carcass bag should have re-enforced eyelets on the corners with rope ties to keep the bag upright while loading a carcass				
10	25lt Square clear Containers for liquid waste. • UN Approved Models for Hazardous Materials • Dimensions: 450mm x 280mm x 281mm • Cap Size: 60mm • Pack Size: 9 Containers • Weight: 950g – 1200g, 1400g & 1600g	OVR/ TAD		100	Bi-monthly
11	3 x Steel sealable heavy-duty skips bins for incinerator and boiler ash waste, built with tight-fitting lids, gaskets, or anti-surge baffles to prevent leaks, and spills during storage and transport	OVR/ TAD		3	Once off
12	Supply and delivery 70 x 240L Wheelie Bin (SABS Approved) (10 x blue bin for paper waste, cardboard, newspapers, and magazines, clean and dry, 10 x yellow bin for plastic waste, empty bottles, and packaging, 15 x green bin for general waste, organic matter, or general refuse, 10 x red bin for hazardous or biomedical waste [such as chemicals, paints, or medical items], 10 x black bin for glass waste or general household waste [non-recyclable refuse]. 10 x orange Bin : Food waste or specialized packaging streams and 5 x light green bin for cans and metal waste).	OVR/ TAD	 All colours of same size	70	Once off
	Collection and disposal (incineration/ neutralization) of expired/ unused chemicals will be priced per kg or Toonage	OVR/ TAD		Ton	Ad hoc

	Collection and thermal disposal of biohazardous laboratory waste will be priced per kg or Toonage	OVR/ TAD		Ton	Bi-monthly
	Collection and thermal disposal of anatomical waste (carcasses and animal tissues) will be priced per kg or Toonage	OVR/ TAD		Ton	Adhoc
	Collection and thermal disposal of pharmaceutical waste will be priced per kg or Toonage	OVR/ TAD		Ton	Bi-monthly
	Collection and thermal disposal of sharps waste will be priced per kg or Toonage	OVR/ TAD		Ton	Bi-monthly
	Collection and thermal disposal of ash waste (Skips) will be priced per kg or Toonage	OVR/ TAD		Ton	Ad hoc
	Collection and thermal disposal of chemical / Liquid waste will be priced per kg or Toonage	OVR/ TAD			Bi-monthly
	Collection and thermal disposal of biohazardous polystyrene cold boxes will be priced per kg or Toonage	OVR/ TAD		Ton	Bi-monthly
	Collection and thermal disposal of biohazardous gel ice packs will be priced per kg or Toonage	OVR/ TAD		Ton	Bi-monthly
	Collection and disposal of fluorescence tubes will be priced per kg or Toonage	OVR/ TAD		Ton	Ad hoc

Waste collection points will be OVR temporal waste centres, or at specific labs & facilities such as Rabies, Virology, Residue, Kaalplaas, EPV, TAD, Biotechnology, Workshop, Bacteriology, incinerators, Registration Services, and Toxicology

5. Compulsory Requirements

No	Compulsory requirement	Comply (Yes / No)	Details to Offer
5.1	Submit with the proposal a valid current Tax pin code as issued by SARS		
5.2	Bidders shall be registered on the Central Supplier Database. Proof of registration on the Central Supplier Database (CSD) to be included in the bid proposal. Information may be obtained from www.csd.gov.za		
5.3	Completed and signed Standard Bidding Documents (SBD) forms included in the bid document		
5.4	Bidders shall include with the proposal a company profile with a list of previous experience included.		
5.5	Bidders shall include at least two (2) reference letters from clients for the removal and disposal of biohazardous waste from BSL-3 facilities like the Transboundary Animal Diseases facility		
5.6	Bidders shall include a copy of the valid Letter of Good Standing issued by Department of Employment and Labour in terms of COIDA		
5.7	Bidders are required to submit with the proposal a detailed project waste management plan.		
5.8	Bidders will be required to attend compulsory site visit/ briefing session , confirm availability of the necessary capacity & resources for waste removal, transportation & disposal,		
5.9	Bidders are required to provide proof that they comply with the applicable legislation and regulation for the disposal of material potentially containing foot-and-mouth disease virus, African swine fever, and Rabies virus(lyssaviruses).		

6. Delivery addresses

Outstation	Physical Address	Waste Material
1. Transboundary Animal Diseases Facility, Onderstepoort Veterinary Research (TAD)	100 Soutpan Road, Onderstepoort	biohazardous laboratory waste and carcasses
2.. Rabies Laboratory Building number 26	100 Soutpan Road, Onderstepoort	biohazardous laboratory waste and carcasses
3. Onderstepoort Veterinary Research postmortem cold room and EPV walk-in freezer outside building 36	100 Soutpan Road, Onderstepoort	Carcases Biohazardous laboratory, chemical and severed carcasses in 100L wheelie bins
4. Virology laboratory	100 Soutpan Road, Onderstepoort	carcasses (chicken)
5. Residue laboratory	100 Soutpan Road, Onderstepoort	Biohazardous laboratory, chemical and animal tissues waste.
7. VDD laboratory	100 Soutpan Road, Onderstepoort	Biohazardous laboratory, chemical and animal tissues waste.