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SCOPE OF WORK

INTEGRATED SCRAP AND WASTE MANAGMENT

1. Introduction

During the process of uranium production, Rössing Uranium Limited (Rössing) generates large volumes of waste which must be managed responsibly and in an environmentally friendly manner so as to ensure the health and safety of all employees and contribute to sustainable development. Rössing waste has its origin from different sources and locations and which determines the disposal requirements. It is imperative that Rössing employs a functioning waste management system.

2. Scope of Work

2.1 Introduction

The core services that the Contractor for Rössing is to provide and manage an integrated scrap and waste management system. The scope of work will be complemented by procedures from Rössing's (Health Safety Environment and Quality Management System (HSEQ MS). These procedures are referred to and attached to the scope.

2.2 General

Unless otherwise expressly provided herein, the Contractor shall supply all management supervisors, labour, equipment, consumable items, cleaning materials, transport and each item of expense necessary for execution of the activities below on Rössing premises.
All work shall be performed to the requirements set out below.

2.3 Detail Scope of Services

2.3.1 Sorting, cutting, loading and removal of waste materials and scrap. – See Procedure JE50/WMP/001, element 10 attached for the detailed instructions

The contractor shall purchase and remove identified scrap and waste from the Rössing site once sufficient quantities of such waste become available. The contractor may establish a scrap depot, off site for stockpiling and /or storage, to which scrap can be removed. Identified scrap and waste are the following:

- Scrap metal (aluminium, brass, copper, steel, lead, etc.)
- Hazardous waste (old oil, old grease and scrap batteries, used air and oil filters)
- Paper
- Cardboard / Boxes
- Timber
- Scrap conveyor belting
- Metal containers
- Plastic containers
- Electric motors (0-75KW)
- Electric cable
- Industrial copper (ICW)
- Insulated aluminium cable (ICW)
- HDPE piping
- Rubber lined pipes
- Stainless steel

- Scrap batteries
- Mixed electrical (Scrap Switchboards, with switchgear)
- Steel wire armoured copper cable
- Plastics (pvc stripping's)

General Handling of scrap and waste

1. A suitable truck shall be used to transport and load scrap materials for the duration of the contract, and may not be changed without the prior written approval of Rössing.
2. All scrap, shall be removed from Rössing site by road trucks unless it has been agreed in writing that the scrap may be removed by rail truck. The Contractor is responsible for all transport arrangements.
3. Non-ferrous metals shall after sorting be stored in a secure area prior to despatch by truck.
4. Vehicles utilised in removing scrap from site shall pass over Rössing's weighbridge unladen and laden. The difference between the two mass readings shall be the mass of scrap removed from site.
5. Road Haulers and trucks may only be laden with one category of scrap at a time.
6. The certificate issued by the weighbridge facility shall be used in determining the weight of each individual load by multiplying the mass reflected on the certificate by the rate (to be agreed on) for the particular category of scrap.
7. No materials may be removed from site before it has been cleared by Rössing for release.
8. The Contractor must supply Rössing with correct safe disposal certificates.
9. The Contractor shall keep records of the destination of all scrap removed from site. Such records shall be available to the Rössing representative or relevant government department.
10. The Contractor is required to conduct a relevant Risk Assessment, Job Hazard Analysis (JHA) and obtain a Work Permit and will complete a daily Risk Assessment and perform a daily Toolbox talk prior to any inspections or work will commence.
11. The Contractor shall ensure that the correct and prescribed PPE will be worn at all times.
12. Barricading of work shall be in accordance with the relevant Rössing Specifications. The barricading will deemed part of the Contractor's operating equipment and should be included in the tendered rates.
13. The Contractor shall ensure that proper signage and hazard warnings are displayed at working site.
14. The Contractor shall be expected to report any defects observed or found that can critically affect the correct operation of the equipment or plant in any way.

Waste and Scrap collection

1. The Old Acid Plant area (decommissioned, all parts removed and fenced off) will be the designated area of responsibility of the appointed Contractor in which all loading activities for scrap that must leave Mine site will take place.
2. The contractor is also required to clear the current Salvage yard while operating on the Old Acid plant area.
3. Unless otherwise specified, these below will be the waste collection points.

Waste Type	Collection Point	Waste Container
Scrap Metal	To be delivered to Yard by Rössing	Green lugger bin
Hazardous Waste	All the Workshops and every other section that generates it.	Brown lugger bin or other container
Paper	Designated central points like the one at Maintenance Planning	Paper bins
Cardboard/Boxes	All the Workshops where a yellow cage has been placed.	Yellow cages
Timber	Stores Receiving areas and some Workshops	Piled up in the open

Tyres	At Vehicle Maintenance	Piled up in the open
Scrap conveyor belting	Designated areas	Piled up in the open
Metal & plastic drums (210L)	All the Workshops and every other section that generates it.	Piled up in the open
Plastic containers (20 L & 25L)	All the Workshops and every other section that generates it.	Piled up in the open

4. Delivery of scrap metal to the Yard can be done in one of two ways:
   a. deposited in lugger bins
   b. deposited at the Salvage Yard
5. Under no circumstances may the Contractor remove waste of any other than designated areas unless authorized in writing by the relevant Superintendent. In such cases the scrap for removal shall be clearly marked and demarcated for removal.
6. The Contractor's planning shall be as such that the truck or any other vehicle meant for loading scrap in the collection area shall do so during day light only and shall leave the Mine on the same day.
7. Where waste is collected by the Contractor by means of road transport, it shall be the responsibility of the Contractor to ensure that the necessary permit in terms of the Road Transportation Act is held by the Contractor or where applicable the Contractor's agents or distributors or where applicable by the road haulier employed for this purpose. The Contractor shall in this case indemnify Rössing against any loss suffered (including confiscation of the waste) as a result of non-compliance with the said Act.
8. All scrap collected by the Contractor onto the road or rail vehicle, will be at the sole risk of the Contractor.

Sorting of materials

1. All scrap shall be cut and reduced to a manageable size.
2. Materials shall be sorted into separate sorting bay according to the following categories:
   - Scrap metal (Ferrous and Non Ferrous)
   - Hazardous waste (old oil, old grease and scrap batteries, Used Air and Oil Cleaners)
   - Paper
   - Cardboard/Boxes
   - Timber
   - Tyres
   - Redundant conveyor belting
   - Metal containers
   - Plastic containers
   - Electric motors
   - Electric cable
   - Industrial copper (ICW)
   - Insulated aluminium cable (ICW)
   - HDPE Piping
   - Rubber lined pipes
   - Stainless steel

Hazardous waste to be disposed at the Rössing contaminated waste site at the Tailings facility.

Yard management

The Contractor shall be responsible to manage the complete salvage yard, including:

- Sorting of scrap and waste materials
- Cutting steel work to size
- Loading of trucks
- General housekeeping duties
- Controlling of material
- Booking of road trucks

- Monitoring scrap that enters salvage yard on a daily basis
- Ensure the firefighting equipment is checked and tested monthly.

Site establishment

1. The Contractor will require to provide messing facilities, change house and office facilities on Rössing site at the Salvage Yard in the form of temporary containers / prefabricated structures fitted for this purpose or prefabricated structures.
2. Rössing will supply water and power to the Salvage Yard
3. All other tools, equipment and materials not serving any purpose other than that for safety, shall be removed from site and brought to site daily as and when required.
4. A tool, equipment and material list shall be drawn up listing the tools and equipment to be brought on site and the list will be presented at the Security Control point.
5. Any tools, equipment and materials brought on to Rössing site without obtaining the correct Security Clearance will not be released from Rössing site.

Vehicles on site

To adequately provide the expected levels of service the Contractor is expected to supply the following as minimum in order to render the required service:

1. A suitable vehicle (typically a mini bus) to transport employees to and from Rössing site.
2. A suitable LDV to transport employees on Rössing site.
3. A 7 Ton Truck equipped with a remote-controlled vehicle mounted crane (Hiab) with a lifting capacity of 5 tonnes.
4. A light truck with a loading box suitable to transport paper and cardboards/boxes without causing spillage. Typically a wire cage fitted onto the truck loading box.
5. All required hand tools required to perform the services.
6. All required consumables, if any, such as rags, etc.
7. All standard and special Personal Protective Equipment and clothing as required conforming to related Standard Procedures.

Tools and Equipment

The contractor shall ensure and have in his possession all relevant trade tools and equipment generally required to execute the service, including but not limited to

1. General hand tools
2. Cutting torches
3. Acetylene and Oxygen cylinders
4. Bins / skips

Small Tools shall include but not limited to grinders, drilling machines, portable electrical tools, general hand tools, electrical extensions etc.

The equipment shall be inspected on a regular basis and approved by the Rössing responsible person before the equipment is put into operation. All equipment shall comply with Rössing safety standards and requirements.

The contractor shall be responsible for the provision of any craneage or lifting equipment necessary for the execution of the services in the salvage yard. Any work required to be conducted away from the salvage yard, requiring a mobile crane or similar lifting equipment shall be negotiated on an ad hoc basis.

The use of all equipment shall be regulated and subject to the relevant Rössing standards, operating procedures and safe work procedures, the requirements of which the contractor acknowledge being aware of and understands.

2.3.2 Management of domestic landfill site – See Procedure JR50WMP/006 of element 10 for the detailed instructions

- Activities include:
  - Bund construction, cell construction, cell management, development sequencing, covering, compacting and recording of waste.
  - Ensuring that operators follow procedures, weighing of wastes daily per trip, and reporting of any non-conformances with regards to waste disposal and waste records.
- Resources required (to be provided by contractor)
  - Front end loader
  - Tipper Truck
  - Dozer / Roller
  - Equipment operators

2.3.3 Management of waste oils (contaminated and uncontaminated) - See Procedure JE50/WMP/002 of element 10 for detailed instructions

Radioactively contaminated waste oils and hydrocarbons are stored in an area in the Processing plant. Other waste oils and hydrocarbons are stored in the Temporary Storage Yard close to the open pit. Both these areas need to the managed (i.e. quantities stored, inspections and good housekeeping).

Activities in these two storage yards include:
- House keeping
- Receiving and accepting 2-3 drums per month
- Arranging for disposal and transport of the waste items
  - Oil sold to Oil Tech (Oil Tech provides own transport)
  - Grease etc. disposed at Walvis Bay Municipality Hazardous site (Contractor to liaise with Mine maintenance for the arrangement of transport with Wesbank and area preparation at the Walvis Bay Municipality Hazardous site)
- Provide final quantities, total weight and copy of disposal certificates to the Environmental Advisor Waste Management
- Provide quarterly figures quantities received from different producers
- Resources to be provided by contractor:
  - 1 Forklift
  - Equipment operator and assistant

2.3.4 Management of bioremediation facility (sludge farm) – See Procedure JE50/WMP/014, element 10, chapter 6 for detailed instructions

Uncontrolled disposal of hydrocarbon-contaminated soil and sludge can result in soil and groundwater contamination. The bioremediation facility for hydrocarbon-contaminated soils (“sludge farm”) was established to treat oil sludge and other contaminated material. The facility is located on the Tailings storage facility.

Activities include:
- Removal of oil sludge on a scheduled basis from producers
- Notification of tailings operation foreman before the delivery of contaminated sludge / soil to the hydrocarbon treatment facility (about 1 trip per week / every 2nd week)
- Delivery and mixing of sludge;
- Moisture addition
- Nutrient addition
- Soil mixing and aeration
- Manage area in terms of housekeeping and health and safety. Waste collected from the sludge is taken to contaminated waste site on the tailings dam
- Provide final quantities, total weight and copy of disposal certificates to the Environmental Advisor Waste Management
- Provide quarterly figures quantities received from different producers
- Resources to be provided by contractor:
  - 2 Full-time operators
  - Fixed sprinkler system, hosepipes, tractor and plough
  - Fertilizer

2.3.5 Operation and Management of Incinerator

Management of incinerator operations on a scheduled basis

- Activities include:
  - Collecting of waste to be incinerated from producer
  - Sorting through waste if needed
  - Load, emptying, fuelling (fuel provided by RUL), disposal of ashes and continual maintenance of incinerator
  - Maintenance of incinerator components to adhere to emission specifications and limits
- Resources to be provided by contractor:
  - Forklift
  - Equipment operator and assistant

2.3.6 Operating press for both oil and air filters

A hydraulic press for pressing of used air filters before disposal has been established. The press provided by Rössing is adequate to cater for various sizes of Heavy Mobile Equipment air filters.

Resources to be provided by contractor:
- 1 to 2 Operators

2.3.7 Continuous operation of road sweeper

Operate road sweeper provided by RUL on a scheduled basis
- Resources to be provided by contractor:
  - Operator

General

The amounts of all wastes moved needs to be reported at all times. Rössing does have a weighbridge for this purpose.

The contractor will be operating in the following areas:
- A yard central to the Processing plant which will be the main operating & storage area
- Oil Storage yards (x2)
  - Next to rodmills section in the Processing plant
  - Temporary oil storage yard
- Bioremediation facility (sludge farm)
- Incinerator

The service shall be conducted on a daily basis, Monday to Friday during the hours 08h00 to 16h15.

3. HSE (Health, Safety and Environment)

1. The contractor shall familiarise himself/herself with the Rössing Health, Safety and Environmental Procedures and Policies and will adhere strictly to it at all times.
2. The contractor, personnel, and agents shall note that the protection of the environment is one of Rössing core values and shall not do or neglect to do any action in contravention of the policies and procedures. As such all areas shall be kept clean and tidy at all times and any rubbish generated by the contractor shall be removed and disposed off site.
3. The contractor shall ensure that all his/her personnel comply with, and have completed the Rössing site-specific inductions.
4. The contractor shall, at its cost issue its employees with the necessary safety and personnel protective equipment for the safe performance of the service. The contractor must ensure that its employees wear the correct PPE when performing the work.

5. Gas bottles, while in use must be individually chained to a trolley designed for the transporting there of and which is equipped with suitable fire extinguishers. When not in use, gas bottles whether empty or full must be stored in an upright position and restrained by means of a chain around each bottle anchoring it to an immovable structure. Appropriate warning signs must be displayed at the gas bottle storage areas.
6. Cutting torches must be fitted with flashback arrestors at both the torch and the gauge ends. Correct hose clamps must be fitted to the cutting torch hoses.
7. The contractor shall, at its cost provide and maintain fire extinguishers of a quality, type and quantity approved by Rössing for its operation. The fire extinguishers must be placed at strategic locations as directed by Rössing.

Appendices:

- JE50/WMP/001 – Non- Mineral Waste Management Procedure
- JE50/WMP/002 – Re-use / Disposal of Hydrocarbons Procedure
- JR50WMP/006 – Operating and disposal practices for Rössing Landfill Site
- JE50/WMP/014 - Bioremediation of Hydrocarbon Contaminated Soil and Sludge Procedure