

**SPECIFICATION FOR THE PROVISION OF WASTE MINIMISATION,
REMOVAL, SAFE DISPOSAL AND HOUSEKEEPING SERVICES AT
TRANSNET ENGINEERING'S KOEDOESPOORT PLANT AND CORRIDORS
2025**

1. BACKGROUND

Transnet Engineering, an Operating Division of Transnet SOC Ltd. It is the largest single heavy engineering capability in South Africa, boasting extensive manufacturing prowess and a comprehensive suite of maintenance services. Operating across six main plants and approximately 140 maintenance depots whose footprint is strategically spread throughout South Africa, Engineering's network spans the rail corridors, ports, and terminals to ensure a comprehensive reach for servicing continuous logistics operations

The organization is dedicated to the design, manufacture, remanufacture, and upgrade, maintenance and repair of locomotives, coaches as well as wagons. TE also supplies rolling stock equipment and components as well as maintenance of all rolling stock locomotives, and freight wagons, port equipment, plant equipment and machinery, as well as the remanufacturing of rolling components, such as wheels, traction motors, engines, compressors, and exhausters. In the operation of these business, Transnet Engineering generates various waste which require classification to determine whether the waste is hazardous or not and the severity of the hazard posed thereof.

1.1. Koedoespoort Region

Koedoespoort Region is one of the six plants of Transnet Engineering. It encompasses a number of corridors (depots and sub depots) spread across 5 provinces, i.e., Mpumalanga, Gauteng, North West, Limpopo, KwaZulu Natal, with the central operations based in Koedoespoort Main Plant, Pretoria. Koedoespoort centre encompasses 100 hectares and has +28000 employees, and the maintenance depots have 309 employees combined.

2. SCOPE OF WORK

Transnet Engineering (TE) requires the services of a reputable, competent, and experienced Service Provider for waste minimisation, removal, and safe disposal of its waste streams in the Koedoespoort Region for a period of **three (3) years**. The services required will include the provision of appropriate waste receptacles for handling, removal, recycling, and disposal of all types of waste (general and hazardous). The waste receptacles should meet all applicable national standards and further be able to temporarily store both hazardous and general waste without causing any nuisance or pollution. The service provider will also be required conduct housekeeping inside TE Main Centre and including the local depots. Housekeeping includes emptying of the wheelie bins, picking up waste in open areas and

Document Number: SHE IMS_SPEC	Document Name: Specification for Waste Management Services at Transnet Engineering
Issue Date: Wednesday, 07 May 2025	Page 2 of 20

disposing into provided skips, cleaning up of minor spillages, bosch tank, separator pits and workshop pits and washing of the wheelie bins.

The proposed services should include an Integrated Waste Management System and processes to ensure improved waste separation, best practices, reducing, reusing, and recycling of waste. TE aims to reduce waste costs and to realise an increase in revenue on recyclable materials, tighter controls on waste movements and accurate recording of wastes volumes by category or type. Whilst cost reduction is reliant on the types of waste TE produces, the prospective service provider must demonstrate in their proposal that they are able to increase the volumes of recyclable material and reduce the waste volumes to landfill.

2.1. Geographical areas of service

The service provider should have capacity to provide the required services in the areas tabled below:

Table 1: Geographical areas (TE Depots and sub depots)

LOCATION	SIZE	ESTIMATED KILOMETERS WITHIN/FROM PRETORIA
Welgedatch Wagons	Small	80 km
Ermelo Locomotive & Wagons	Medium	250 km
Capital Park Locomotive & Wagons	Medium	15 km
Blue Train Coaches	Small	15 km
Trichardt Locomotive & Wagons	Small	128 km
Tzaneen locomotive & Wagons	Small	294 km
Musina Locomotive & Wagons	Small	487 km
Witbank Locomotive & Wagons	Medium	100 km
Rustenburg Locomotive & Wagons	Small	107 km
Komatipoort Locomotive & Wagons	Medium	380 km
Nelspruit Locomotive & Wagons	Medium	280 km
Phalaborwa Locomotive &	Small	346 km
Document Number: SHE IMS_SPEC		Document Name: Specification for Waste Management Services at Transnet Engineering
Issue Date: Wednesday, 07 May 2025		Page 3 of 20

wagons		
Thabazimbi Locomotive & Wagons	Small	155 km
Pyramid South Locomotive & Wagons	Small	15 km
Lephalale Locomotive & Wagons	Small	236 KM
Polokwane Locomotive & Wagon	Medium	260 km
Lydenburg Locomotive & Wagon	Small	280 km
Koedoespoort Centre	Large	0 km

2.2. Waste Minimisation and Cost Saving

Transnet Engineering aims to divert generated waste from the landfill site by implementing as much as possible Recycling, Reducing and Reusing Initiatives. The key objective is to be environmentally responsible, conserve land space and reduce costs of transporting waste to the landfill sites. Waste minimisation services shall include all three R's (i.e., Reduce, Re-use and Recycle) of waste minimisation as per waste hierarchy. The prospective Service Provider shall provide advice and solutions to minimisation of waste generated from TE activities within various businesses. The service provider will be required to recover or recycle at least between **10%-15%** of total the general waste generated per month and **5%-10%** of the hazardous waste generated per month (excluding used oil). Lastly to reduce waste disposal to landfill by **10%-15%**. The service provider shall report on this KPI target on a monthly and quarterly basis or as an when progress update is required by TE. All minimisation solutions shall be implemented at source in order to eliminate unnecessary disposal of the entire waste stream.

Where TE finds opportunities for recycling and where the service provider has failed to do so, the service provider shall be informed to conform to the agreement made by TE with the recycler or anyone thereof. The service provider shall not deem this act as taking away business, it shall however be seen as an opportunity to divert and minimise waste to landfill, which is a key objective for TE

Document Number: SHE IMS_SPEC	Document Name: Specification for Waste Management Services at Transnet Engineering
Issue Date: Wednesday, 07 May 2025	Page 4 of 20

The service provider shall improve recycling performance rate at the main centre and local depots. The service provider shall further in phases, introduce, implement, and monitor recycling at the bigger depots (out depot).

TE is a dynamic manufacturing and rolling stock maintenance company. Due to the dynamic nature of the organisation, new depots may be established. Certain depots may also be decommissioned due to business demand or strategic placement of resources in line with customer's needs. This may result in reduction of the scope of work. These possibilities will require that the service provider adapt to these changes

2.3. Waste Restricted from landfill disposal

National Environmental Management: Waste Act 59 of 2008, National Norms and Standards for Disposal of Waste to Landfill Regulation 5. Waste Disposal Restrictions (**See table 2 below**) requires that organizations find other ways of dealing with specific waste types such as recycling and reusing instead of disposal, and the Department of Forestry, Fisheries and the Environment (DFFE) through these regulations is now prohibiting these waste types from being disposed of at landfill sites. The prospective **Service Provider shall advise TE on alternative solutions to this waste types** and assist TE in complying with the regulations.

Document Number: SHE IMS_SPEC	Document Name: Specification for Waste Management Services at Transnet Engineering
Issue Date: Wednesday, 07 May 2025	Page 5 of 20

Table 2: Waste Disposal Restrictions

Description	Compliance Timeframe	Examples of Waste Generated in Koedoespoort Region
Waste with a pH value of <6 or >12.	Immediate	Acid waste
Flammable waste with a closed cup flashpoint lower than 61° Celsius.	Immediate	Waste petrol, paraffin, diesel, ethanol waste etc.
Re-usable, recoverable, or recyclable used lubricating mineral oils, as well as oil filters, but excluding other oil containing wastes.	Four (4) years	Oil, oil filters
Re-usable, recoverable, or recyclable used or spent solvents.	Five (5) years	Paints, paint thinners, cleaning chemicals
PCB containing wastes (>50 mg/kg or 50 ppm).	Five (5) years	PCB waste oils from Transformers and old locomotives
Hazardous waste with a calorific value of i)> 20MJ/kg.	i) Six (6) years	i) Ethanol, diesel, paint, petrol, PVC-plastic.
Disposal of garden waste: (i) 25% diversion from the baseline at a particular landfill of separated garden waste. (ii) 50% diversion from the baseline at a particular landfill of separated garden waste	i) Ten (10) years ii) Five (5) years	Tree branches, tree leaves, grass etc.
Other	Refer to the regulation	Conduct assessment of TE waste streams and identify other type of waste that are prohibited.

2.4. Waste Receptacles and Equipment

- The prospective Service Provider shall provide quality and well-maintained resources for the handling and disposal of waste such as but not limited to:
 - Unlidded Skips as per list
 - Lidded skips as per list
 - Onsite vehicle: Bakkie/Capstar
 - REL Truck
 - Super sucker 10KL
 - Tipper Truck(40ton)
 - Skip loader

N.B No receptacles, equipment or any material will be supplied by TE.

- The receptacles must be placed at dedicated storage areas inside the premises by the removal company.
- All receptacles are to be clearly marked or numbered, general waste and Hazardous waste skips/ bins must be labelled as such.
- Receptacles are to be leak proof, rust proof and always in good condition.
- Receptacles provided for the storage of hazardous waste must contain a lid or an appropriate cover.
- Receptacles and vehicles/ machinery transporting waste must be in good condition and comply with relevant legislation and SANS codes of practice.
- Transnet uses a Colour Coded bin system for recycling per waste type. The colour coded bins system is shown in **Table 3** below.
- Skip net cover shall be readily available to cover a skip that is full to prevent waste being blown by wind and also to be used during transportation of waste.
- The Service Provider shall be required to conduct periodic surveys (at least every quarter) to determine the number of receptacles available within all work areas and identify if there is a need to add or reduce the receptacles to ensure business needs are met at all times.
- The successful service provider may be requested during the contract period to change the waste handling equipment to suit TE waste management systems and operational requirements such as
 - Waste container size

Document Number: SHE IMS_SPEC	Document Name: Specification for Waste Management Services at Transnet Engineering
Issue Date: Wednesday, 07 May 2025	Page 7 of 20

- Provision and removal of ad hoc receptacles
- Ad hoc bins must be supplied as and when requested.
- Receptacles used on a full-time basis and those used on an 'ad hoc' basis must be kept separate.
- The prospective Service Provider must state which plant or equipment they propose using and the manner in which the service will operate. Full details of how the Service Provider's business operations are to be submitted with tenders.

Table 3: Colour coded bins system.

Waste Type	Bin Colour
Hazardous waste	Red bin
All general waste	Black bins
Office paper	Yellow bin
Cans and Tins	Blue bin
Plastic Material	Green bin

2.5. Waste Handling and Storage

The successful service provider shall be responsible for the provision of the following services:

- On site waste separation in the main Centre and local depots (Blue Train, Capital Park, Pyramid South & Diesel Depot) in the allocated sorting area **(Please see Annexure F for Waste Sorting Method of Work):**
- The service provider shall introduce recycling practises to a few new depots including Ermelo, Nelspruit, and Polokwane for the first year and report on progress as a KPI. More depots will follow in the second and third year based on waste quantities.
- Temporary storage of waste within the centre shall take place at the waste sorting area.
- Ad hoc waste services requested for accumulated waste in the Koedoespoort Region as a result of events or operational factors/needs.

Document Number: SHE IMS_SPEC	Document Name: Specification for Waste Management Services at Transnet Engineering
Issue Date: Wednesday, 07 May 2025	Page 8 of 20

2.6. Disposal and transportation of waste

- The appointed Service Provider shall be responsible for the collection, removal and transportation of waste from the Koedoespoort Centre and outside depots and disposal to a registered waste landfill/ treatment site, or recycling or recovery plants.
- Receptacles and vehicles/machinery transporting waste must be in good condition and comply with relevant legislation and SANS codes of practice.

The following will apply to the successful Service Provider disposing of waste:

- Loaded "industrial waste" bins shall be adequately covered in transit over public roads to TE's satisfaction and in line with relevant legislative requirements.
- The successful Service Provider shall take all necessary measures to prevent spillage or seepage from receptacles/vehicles during transporting to the appropriate landfill/treatment sites (waste disposal sites).
- It is the responsibility of the Service Provider to ensure that all waste is disposed of at a registered landfill or treatment site, which is specifically designated for such purposes. The waste handling and disposal sites shall be subjected to random audits by TE.
- Submitting signed waste manifest documents and certificates of safe disposal from the Waste Disposal Site that received such waste with each invoice to the Safety Health and Environmental (SHE) Department.
- All data associated with the submission of waste manifest and safety disposal certificates for each stream that is removed from site must be forwarded to Safety Health and Environmental (SHE) Department.

2.7. Frequency of Waste Removal:

- General waste will be collected as and when required depending on /operational requirements.
- The collection of waste in the main centre will be done within 24 hours after the service provider has been notified of a need to collect and within 36 hours in all the outside depots.
- For Hazardous Waste, the Successful Service Provider will be contacted to collect and dispose in an ad-hoc basis when the waste has accumulated. It is therefore important for the prospective Service Provider to ensure they have enough capacity and that they are readily available as and when called.

Document Number: SHE IMS_SPEC	Document Name: Specification for Waste Management Services at Transnet Engineering
Issue Date: Wednesday, 07 May 2025	Page 9 of 20

2.8. Certificates and Licenses

The prospective Service Provider should have relevant authorisations in a form of registrations and licenses to handle all type of waste and shall be responsible for submitting all information legally required to the Koedoespoort Safety Health and Environmental (SHE) Department including:

- Licenses of all landfill sites/recycling companies used for disposal of all waste.
- Licenses of Material Recycling Facilities used for recycling of recyclables.
- Waste manifest documents in line with Waste Information Regulations.
- Acceptance of waste/ material received by recycling facilities/ treatment facilities.
- Information required to complete waste accounting in line with TE Waste Information System.

2.9. Waste Management Awareness

Despite all efforts in the past years, there is still clear evidence of a general lack of awareness and understanding of the requirements for waste management in the Koedoespoort Region. The successful service provider's performance shall also be measured by the number of waste awareness they conduct in a year and throughout the duration of the contract. The successful service provider shall be required to provide an awareness plan and conduct awareness to employees in order to educate and optimise waste minimisation. The awareness is expected to improve the current situation and eliminate:

- Mixing of general and hazardous waste.
- Mixing of recyclables and general waste.
- Disposal of recyclables/reusable materials.
- Handling and disposal of asbestos
- Burning of waste materials on site; and
- Poor understanding related to the importance of adequate waste storage areas and equipment.

The awareness should clearly define and emphasise roles and responsibilities of employees in effectively and efficiently managing waste.

Document Number: SHE IMS_SPEC	Document Name: Specification for Waste Management Services at Transnet Engineering
Issue Date: Wednesday, 07 May 2025	Page 10 of 20

3. TECHNICAL CAPACITY, EXPERIENCE AND COST PROPOSAL:

The Service Provider shall propose all probable cost in relation to the defined scope of work. The technical proposal shall clearly define the methodology/approach to this project with clear time frames.

- Prices must be fixed for one (1) year.
- **The rebates for used and effluent recovered oil shall be paid to TE at or above market related price.**
- Prices may not be higher than the inflation rate or legislated rates. The cost proposal shall have a clear break down of bill of quantities in line with the following line items and depicted on **Annexure C– Pricing List – Cost Proposal:**
 - Rental Cost
 - Transport Cost
 - Landfill Cost
 - Waste Separation Cost
 - General Waste Handling Cost
 - Hazardous waste handling Cost

The service provider shall relocate waste skip within the plant or depot when they are activated for routine/scheduled waste collection at no cost to Transnet.

4. REPORTING

4.1. Monthly/Annual Reporting

The successful Service Provider shall be provided with a TE customised waste reporting template. The report will provide monthly and yearly performance reports highlighting volumes, incidents, and challenges. He/she shall accordingly submit monthly and annual reports which are in line with provisions of Waste Information Regulations applicable to the Koedoespoort Region and in line with the TE reporting template.

The monthly reports shall be submitted with the following information amongst others:

- the types and volumes/tonnages of minimised/recyclable waste,
- the types and volumes/tonnages of disposed waste,

Document Number: SHE IMS_SPEC	Document Name: Specification for Waste Management Services at Transnet Engineering
Issue Date: Wednesday, 07 May 2025	Page 11 of 20

- the names of businesses where waste was collected,
- the names of business where recyclables were collected,
- the area(s) or points in the business where waste was collected,
- the rebates rates per quantities of all recyclables collected

In addition to the above monthly report content, the yearly report shall further include:

- Compliance measurement
- New introduced recycling opportunities
- Performance of existing recycling opportunities

The reports shall be issued electronically (i.e., Safety Health and Environmental (SHE) or relevant Local Business Manager). Waste and recyclable volumes and types must be captured electronically in line with TE requirements to allow the establishment of waste trends and the monitoring of performance objectives and targets.

Meeting with the Koedoespoort Safety Health and Environmental (SHE) Department on a monthly basis or as and when required to ensure the services are carried out effectively in accordance with the scope, Service Level Agreement and to resolve any matters of concern that might arise.

4.2. SAWIC/SAWIS Reporting

The service provider shall be responsible and ensure that all hazardous disposed waste is reported into the SAWIC/SAWIS website as required.

4.3. Waste Inventory

The service provider shall be responsible for the updating of the existing waste inventory on an annual basis or as a when a new waste stream is identified or introduced within TE processes.

4.4 Waste Classification

The service provider shall be responsible for conducting waste classification for any new waste streams that will be introduced by operational processes. The waste classification process shall include but not limited to the following:

- Waste sampling, analysis, and characterisation.

Document Number: SHE IMS_SPEC	Document Name: Specification for Waste Management Services at Transnet Engineering
Issue Date: Wednesday, 07 May 2025	Page 12 of 20

- Testing to determine if the waste exhibits any of the four characteristics of a hazardous waste, he or she must obtain a representative sample
- This evaluation involves testing the waste or using knowledge of the process or materials used to produce the waste.
- Waste Classification, in terms of SANS 10234, as required under Regulation 4 (2) of the National Waste Classification and Management Regulations of 23 August 2013; and
- Development of a 16-point Safety Data Sheet (SDS) for waste streams that are classified as hazardous in terms of the above,
- Development of a Waste Classification Report for each waste stream that has been assessed.

5. COMPLIANCE WITH STATUTES:

The successful service provider shall ensure that applicable legislative requirements pertaining to the minimisation, removal and disposal of waste are complied with. This shall include compliance to the provisions of, but not limited to:

- The National Environmental Management Act, Act 107 of 1998.
- The National Environmental Management: Waste Act, Act 59 of 2008 as amended.
- The Compensation of Occupational Injuries and Diseases Act (No. 130 of 1993).
- The Occupational Health and Safety Act (No. 85 of 1993).
 - The prospective service provider shall be required to submit a SHE Contractor Compliance file at their own cost (Index to be provided to the successful service provider).
 - The service provider shall arrange for Transnet Safety, Health and Environment Induction for all employees dedicated to Transnet Engineering sites, including new personnel servicing TE's Depots at own cost.
- Waste Information Regulations and Standards.
- The National Traffic Act, Act 93 of 1996.
- The Employment Equity Act, Act 55 of 1998.
- The Labour Relations Act, Act 66 of 1995.
- The Basic Conditions of Employment Act, Act 75 of 1997.
- National Water Act (Act 36 of 1998).

Document Number: SHE IMS_SPEC	Document Name: Specification for Waste Management Services at Transnet Engineering
Issue Date: Wednesday, 07 May 2025	Page 13 of 20

The service provider shall comply with any relevant legislation that might be promulgated during the course of the contract period and shall do so at his/her own cost.

The service provider shall immediately inform and advise TE of changing waste legislation, regulation and analyse impact on TE operations and financial position.

6. SERVICE PROVIDER REPRESENTATIVES

Once appointed, the Service Provider shall ensure adequate supervision for services provided, accessibility and availability at any hour for call-out in cases of emergency. The successful Service Provider shall provide Transnet Engineering with the names and telephone/cellular phone numbers of its representatives. The nominated representatives shall be familiarised with the contact details of TE Safety Health and Environmental (SHE) Department.

The successful Service Provider shall elect a person to assume supervision duties over the services at all times. Such a person shall be competent and responsible and have adequate experience in carrying out work of a similar nature.

All persons employed by the successful Service Provider for carrying out the required services shall:

- Be competent and of good character
- Be trained in Waste Management
- Be exposed to medical surveillance
- Obey SHE and security rules
- Comply with prescribed PPE. The waste service provider shall supply its own PPE to its employees. The employees shall at all times wear the provided branded PPE for ease of identification and health and safety reasons.

7. HEALTH AND HYGIENE OF WASTE HANDLERS

The following is applicable to the successful Service Providers operating on-site:

- Waste handlers should be informed and trained on the risks and hazards of exposure to such waste (regulations for Hazardous Biological Agents, R4: Information and Training).

Document Number: SHE IMS_SPEC	Document Name: Specification for Waste Management Services at Transnet Engineering
Issue Date: Wednesday, 07 May 2025	Page 14 of 20

- Waste handlers should wear adequate and appropriate PPE, which must include, but are not limited to, impermeable gloves, identifiable overalls, steel toe cap shoes, etc. Waste handlers should be trained in the proper usage and storage of PPE (regulations for Hazardous Biological Agents, R4: Information and Training).
- All waste handlers should be subjected to pre-employment medical tests prior commencement of the contract. Proof of such medical tests should be produced upon request.
- Waste handlers should adhere to any instructions given regarding environmental, health and safety practices by a person delegated by or designated TE employee. Adequate infection control techniques shall be practiced at all times.
- All incidents involving potential infection should be reported to TE as soon as possible. Any information that could assist in the investigation of an incident should be made available upon request to TE.

8. REQUIREMENTS:

8.1. General Requirements

The successful service provider shall:

- Conform to applicable SANS standards, best practices management systems like ISO 9001, 14001 and ISO 45001.
- Adhere to all security measures as enforced by Transnet Engineering.
- Make provision for PPE and training for own employees and staff.

The service provider shall be subjected to Monthly SHE inspections and Audits in line with TE's Safety, Health and Environment (SHE) Specifications.

Service providers shall be encouraged, at their own costs to visit the sites of the proposed waste removal service and acquaint themselves with the nature of the work, the conditions under which the work is to be done, the means of access to the site, the waste to be removed, any limitations or restrictions that may be imposed by TE, local or other relevant authorities.

General matters that may influence or affect the contract and shall be deemed to have been allowed in the tender for any additional costs involved due to the foregoing as no claims for any extras will be

Document Number: SHE IMS_SPEC	Document Name: Specification for Waste Management Services at Transnet Engineering
Issue Date: Wednesday, 07 May 2025	Page 15 of 20

compensated. TE does not guarantee that the products to be disposed of as observed at the site meeting will remain of a consistent nature.

8.2. Evaluation Criteria Requirements

The bids received from potential service providers shall be evaluated based on the following criteria. :

- **Legal Compliance/ Requirements-** Company Authorisation and Registration for handling, transporting, and disposing waste
- **Training and Competency-** Training of Onsite Personnel on Waste Management, Hazardous Substance Handling by an Accredited Institution. Institution accreditation number must be endorsed on certificates.
- **Company Experience in Waste Management Services** – submission of references letters for full time waste handling (Collection, storage, recycling, transportation, and disposal) services that was provided on the previous work/contracts of similar scope .
- **Methodology-**Submission of detailed methodology on waste classification, Waste minimization and recycling approach that the contractor will employ in this scope of work.
- **Waste Key Performance indicators:** Commitment to achieving TE waste KPIs as outline in **Annexure D**
- **Technical Capability-** The company should demonstrate the capacity to handle scope of work in terms of required equipment (e.g. Waste trucks, waste receptacle, supersuckers, etc.) attached a signed affidavit and pictures of the assets listed in the affidavit. (See **Annexure E**)

Full details of the technical requirements are included in **Annexure B: Technical Evaluation Criteria – Waste Services**

Document Number: SHE IMS_SPEC	Document Name: Specification for Waste Management Services at Transnet Engineering
Issue Date: Wednesday, 07 May 2025	Page 16 of 20

Technical specification compiled by:

Name: Collen Manana

Designation: Environmental Specialist

Date: 07-05-2025

Signature: _____

Technical specification reviewed by:

Name: Mmalaka Phejane

Designation: Senior Environmental & Sustainability Manager

Date: 07/05/2025

Signature: _____

Technical specification approved by:

Name: Anne Motau

Designation: Head of SHE: Manufacturing & Maintenance

Date: 07-05-2025

Signature: _____

Document Number: SHE IMS_SPEC	Document Name: Specification for Waste Management Services at Transnet Engineering
Issue Date: Wednesday, 07 May 2025	Page 17 of 20

Annexure F

METHOD OF WORK WASTE SORTING AREA

The scope of work is primarily to manage the waste system at TRANSNET in the most cost effective and environmentally acceptable manner as per our ISO 14001 Environmental Management System.

Working Hours

Mondays to Fridays 07h00 – 16h00

Numbers of sorters will be determined by the Service Providers

Duties of onsite waste Team will include

- Categorize and separate all recyclable and non-recyclable waste at the waste yard
- Monitor all the non-recyclable and recyclable bins.
- Sorting and separation.
- Conduct housekeeping regularly in the Centre and local maintenance depots.
- Recover and wash chemical containers for TE re-use or external recycling.
- Cleaning of small spillages
- Washing of waste wheelie bins
- Visiting local depots once a week to sort waste streams.
- Ensuring cleanliness of central waste area.
- Identifying all recyclable grades.
- Manage any recyclable items that need to leave the site.
- Collection of wheelie bins at various businesses.
- The above stipulates the on-site staff allocated to the site 5 days per week.

Equipment

Document Number: SHE IMS_SPEC	Document Name: Specification for Waste Management Services at Transnet Engineering
Issue Date: Wednesday, 07 May 2025	Page 18 of 20

The following vehicles and equipment will be introduced to the site to ensure an effective recycling operation:

- Sorting Table
- Steel Racks
- Scale
- Bailing Machine
- Bulk Bags and Consumables
- 1 x LDV vehicle for wheelie bin collection with Mechanical arm for easy grab, (Swift Lift Crain 500kg)

Waste collection vehicles should be roadworthy and serviceable condition. Daily tasks should be carried out and proof of tasks to be kept. Licensed drivers of waste collection vehicles should adhere to all rules and regulations as stipulated under the National Road Traffic Act (No. 93 of 1996) as well as the relevant SANS codes of practise.

PRINCIPLES TO BE APPLIED WHEN MANAGING ON-SITE AREA:

- "Precautionary Principle" waste is assumed to be highly hazardous and toxic until proven otherwise.
- "Polluter Pays Principle" the person or organisation causing pollution is liable for any costs involved in cleaning it up or rehabilitating its effect.
- "Duty of Care" meaning that the generator of the waste is responsible for the fate of the generated waste in all circumstances – how it is handled, stored, transported, and disposed.
- "Cradle to Cradle" meaning that wastes management begins at generation and ends at recycling, destruction, or safe disposal of waste.
- "Life cycle" approach, which implies that integrated waste management, will be practiced through all stages of an activity including design, construction, operation, decommissioning and closure.

RECYCLABLE WASTE AND REBATES

That a colour coding wheelie bin is implemented to ensure separation at source, The waste which can be recycled will be placed into hessian type bags in their various grades and stored in the racks at the

Document Number: SHE IMS_SPEC	Document Name: Specification for Waste Management Services at Transnet Engineering
Issue Date: Wednesday, 07 May 2025	Page 19 of 20

Central Waste Area until full. Once the bags or skips are full, the recyclable waste will be transported to a recycler of waste and will be sold.

Collection of Wheelie bins will be done daily to ensure bins are kept clean and tidy, where skips bins are present Transnet suggests making use of a skip truck with 6m³ open skip bins to collect the waste and dispose of its contents at the waste area for separation, waste which cannot be separated will be put back into the skip for disposal at the Koedoespoort landfill, safe disposal manifest must be issued after disposal of general waste.

The returns from all waste streams will be refunded to Transnet in whole by means of an additional rebate account or credit discount.

Where TE identifies an alternative waste recycler that pays a reasonable rebate, the contractor will be redirected to use the identified recycler.

Document Number: SHE IMS_SPEC	Document Name: Specification for Waste Management Services at Transnet Engineering
Issue Date: Wednesday, 07 May 2025	Page 20 of 20