

SPECIFICATION FOR PROVIDING HAZARDOUS WASTE MANAGEMENT SERVICES: TRANSNET ENGINEERING – SALT RIVER REGION

1. BACKGROUND

Transnet Engineering (TE), an operating division of Transnet SOC Ltd, is the backbone of South Africa's railway industry with nine product-focused businesses, 132 depots, seven factories and 13,000 employees countrywide. The 132 depots are strategically divided into six main regions. The organization is dedicated to in-service maintenance, repair, upgrade, conversion and manufacture of freight wagons, mainline and suburban coaches, diesel and electric locomotives as well as wheels, rotating machines, rolling stock equipment, castings auxiliary equipment services and the port business. Salt River Region is among the six regions in Transnet Engineering, encompassing 1 main centre (Salt River), 2 maintenance depots (Bellville and Saldanha), and small In-Services depots in Worcester, Beaufort West, Caledon, Klawer, Voorbaai (Mossel Bay) and Sishen.

2. PURPOSE

The Purpose of this specification is to obtain a Contractor to provide waste management services for Salt River Centre, Bellville and Saldanha Depots, and Worcester in-service depot within Transnet Engineering operational businesses as per the areas specified for a period of 36 months for hazardous waste.

3. SCOPE

Transnet Engineering requires the service of a reputable, competent and experienced Service Provider for managing hazardous waste in Salt River Region. In line with the requirements of NEM: Waste Act and the National Waste Management Strategy, TE's approach to waste management is informed by waste management hierarchy. Waste avoidance, reduction, re-use and recycling are the foundation of cradle-to-cradle waste management. The Service Provider will assist TE apply waste management hierarchy in managing waste, in particular recycling. The services required will include the provision appropriate waste receptacles handling, removal, transportation and disposal of hazardous waste. The waste receptacles should meet all applicable national standards and further be able to temporarily store hazardous waste without causing any nuisance. The Service Provider should have the capacity to provide services in the areas tabled below:

3.1 Pre-qualification

The following mandatory document must be submitted and will be used as pre-qualification;

- **Valid City of Cape Town Accreditation as Waste Management Service Provider in line with City of Cape Town Integrated Waste Management By-Law.**

TABLE 3.1 ESTIMATED DISTANCES FROM CAPE TOWN

LOCATION	BUSINESS	ACTIVITIES	ESTIMATED KILOMETERS FROM CAPE TOWN
Salt River	All businesses	Workshops, Stores and Offices	10
Bellville Depot	Locomotives/SOE/PEMM/Wagons	Workshops, Stores and Offices	30
Worcester Sub-depot	Worcester Sub-depot	Workshops	120
Saldanha Depot	Locomotives/SOE/PEMM/Wagons/Wheels	Workshop, Stores, Yard and Offices	150

This scope of service will be that the Tenderer must be able to perform the services as specified below:

TABLE 3.2 SCOPE OF WORK

1.	Provision of Equipment	Area/Frequency
a)	6 or 10 or 11 cube leak free, lidded and good condition waste bins for hazardous waste	Specified areas
b)	14 m3 general waste bins for storage of composite brake shoes	Specified areas
c)	6 or 10 or 11 cube leak free and good condition waste bins for hazardous waste.	Ad hoc areas as and when required
(d)	210 liter drums and lids for for hazardous waste and other specified waste, sampling containers and associated labels.	Ad hoc areas as and when required
2.	<p>Classification of hazardous waste when required. (table 6.2) in terms of Waste Classification and Management Regulations (Government Notice 634 of 2013)</p> <p>Salt River waste hazardous streams were first assessed and classified in February 2017. Therefore, as required waste must be classified every five years or whenever there is a change in the process. Thus, the five year interval falls within this contract period, and there could be other ad hoc classifications that might be required when new waste streams are generated.</p>	As and when
3.	Servicing of waste bins	
(a)	Servicing of waste bins on regular basis	As and when
(b)	Removal of full 210 litre drums of waste	As and when
(c)	Transport, treatment and disposal of waste to a registered waste disposal site	As and when
(d)	Suction and cleaning of sludge tanks/ washbay pits etc.	As and when
(e)	Collection and recycling of used oil, 210 metal drums (at no cost to TE) for the two , and other recyclable hazardous waste materials, when required.	As and when
(f)	Provide monthly waste management reports including waste	Monthly

	volumes, dates of collections, where waste was disposed/treated/recycled; and all waste manifests and disposal certificates per depot (Salt River/Bellville/Saldanha) submitted in electronic form at least by 2nd of the following month.	
5.	Provision of 24-hour spill- response for <u>Medium to Large Chemical/Oil Spill</u> spillages when required. This can be subcontracted where not available.	As and when

4. OTHER REQUIREMENTS

1. The Contractor shall confine his/her work on Mondays to Fridays from 7:00 to 15:30.
2. Any waste removal should preferably done in the presence of the Waster Contractor's labour (**contracted under general waste**) stationed on that particular Depot.
3. **The Contractor shall provide waste bins, servicing and waste removal, transport, and disposal of waste as indicated within 24 hours from the time of request. Any request received after 12H00 on Friday shall be serviced at least within 72 hours (the following Monday).No waste bin shall be removed/serviced without an authorisation from TE.**
4. The contractor shall allocate a contract manager who shall be responsible for managing the contract throughout the duration of the contract.
5. The Contractor must report all SHE accidents and incidents in which his/ her staff / employees are involved rendering services within TE premises immediately to the Risk Practitioner (Contracts) Transnet Engineering in charge.
6. The Contractor shall provide his/ her employees with all relevant Personal Protective Equipment (PPE)
7. The Contractor shall not interfere in any manner whatsoever with the production nor shall he /she carry out any work or perform any act which affect production, security or Transnet's property.
8. The Contractor shall comply with the provisions of the following Statutes among others, as well as all such laws, Provincial Ordinance, Local Authority Bylaws and all relevant Regulations applicable to the work to be undertaken as amended, including but not limited to;
 - a. The Compensation of Occupational Injuries and Diseases Act (Act 130 of 1993)
 - b. The Occupational Health and Safety Act (Act 85 of 1993)
 - c. The National Environmental Management Waste Act, No 59 of 2008
 - d. The National Environmental Management Act, Act 107 of 1998
 - e. The Environmental Conservation Act, Act 73 of 1989.
 - f. The National Traffic Act, Act 93 of 1996.
 - g. National Water Act, No 38 of 1998
 - h. Any other waste related legislation
 - i. City of Cape Town Integrated Waste Management By-Law
 - j. Saldanha Bay Municipality Integrated Waste Management By-Law
9. TE Risk & Safety Department shall monitor the Contractor and evaluate the level of compliance to the conditions stipulated in this specification and Transnet policies through inspections and audits where applicable.

10. All the services provided shall be subjected to inspection by the nominated officials of Transnet Engineering during any stage of the contract period. The Contractor shall permit unrestricted access, at any time, to Transnet Engineering official(s) in order that Transnet Engineering may witness the Contractor in the process of providing the services and to assess the performance of the Contractor in the execution of providing the services against the stipulated schedule of requirements, specification(s) and any mutually agreed upon and documented standard(s). This may include permitting the Transnet Engineering official(s) the opportunity to scrutinize any operational document(s) utilised by the Contractor.
11. Transnet Engineering reserves the right to arrange itself with another Contractor to carry out the service if the service is not adhered to. All costs including supervision in which Transnet Engineering is involved shall be borne solely by the Contractor.
12. Contract will be terminated if Transnet Engineering is not satisfied with the services that have been provided.
13. The contractor shall arrange for Transnet Engineering Safety Induction for all employees before they may enter the different sites for work, including new personnel in case of change in its employees / staff servicing TE's Depots.
14. The service may be decreased/ increased according to the needs of Transnet Engineering.
15. The appointed Contractor shall prepare and submit a SHE file that include but not limited to the following documents:
 - a. Valid COID Letter of good standing;
 - b. Public liability insurance;
 - c. Signed Section 37 agreement (to be provided by Transnet Engineering);
 - d. Medical certificates for each employee to work on site including;
 - i. Hearing test & Lung function test
 - e. Safety File (Must include but not necessarily limited to):
 - i. Risk Assessment ;
 - ii. Appointment letters
 - iii. Safe Operating Procedures
 - iv. Waste Management Plan
 - v. Personal Protective Equipment checklist indicating all PPE to be worn on site
16. The contractor may be requested in the middle of the contract to change the waste handling equipment to suite TE waste management systems.
17. Ad hoc bins must be supplied as and when requested.
18. Bins must be:
 - a. Neatly painted and marked accordingly.
 - b. HAZARDOUS waste bins should be "preferably" red or orange in colour.
 - c. HAZARDOUS waste skips/ bins must be labelled as such.
19. The Contractor must be capable of rendering 24 hour a "hazmat" and environmental spill response service or be able to subcontract such a service. All quotations and invoicing will be dealt with through the main contractor.

5. HAZARDOUS WASTE INVENTORY AND DISPOSAL METHODS:

The industrial processes found across TE businesses in Salt River Region produce various waste streams. Most hazardous waste generated are listed;

Item	Business/Area	Waste description	Landfill Disposal datasheet (VWMF)	& Treatment Facility
Salt River Centre				
	Wheels/RM/RSE	Oily rags & oil contaminated PPE	190749	N/A
	Coaches	Shot Blast	190687	N/A
	Coaches	Empty Paint/Thinners cans	200711	N/A
	RM	Epoxy Resin	190691	N/A
	RM/Wheels	Used grease	190837	N/A
	RM	Used sand blast	1901303	N/A
	Coaches	Used thinners & paint mixture	N/A	Ecoservices
	RM	Oily water	N/A	FUEL 44
	RSE	Metal Dust	1801039	N/A
	RSE/WHL/SOE/PEMM	Used coolant & water	N/A	Ecoservices
	PEMM/Coaches	Fluorescent lights	N/A	Reclite
	Wheels	Crater oil sludge	190686	N/A
Bellville Depot				
1	Locomotives	Oily rags & oil contaminated PPE	190748	N/A
2	Locomotives	Oil & fuel filters	N/A	Ecoservices
3	Locomotives	Oily sludge	1801015	Ecoservices/ FUEL 44
4	Locomotives	Oily water	N/A	FUEL 44
5	Locomotives Worcester	Oily sludge	190323	N/A
6	Wagons	Composite brake pads	1901283	N/A
7	PEMM/Locomotives	Fluorescent lights	N/A	Reclite
Saldanha				
1	Locomotives	Oily rags & oil contaminated PPE	190747	N/A
2	Locomotives	Gear case oil	190689	N/A
3	Locomotives	Oil & fuel filters	N/A	Ecoservices
4	Locomotives	Oily sludge	N/A	Ecoservices/ FUEL 44
6	Locomotives	Oily water	N/A	Ecoservices/ FUEL 44
8	Wagons	Composite brake pads	1901282	N/A
9	PEMM/ Locomotives	Fluorescent lights	N/A	Reclite
10	Wheels/Wagons	Used thinners	N/A	Ecoservices

6. TECHNICAL AND COST PROPOSAL:

1. The suitable Contractor shall propose all probable cost in relation to the defined scope of work as per schedule of prices (**See table 6.1 & table 6.2**)
2. **Prices must be fixed for three years.**

3. The following evaluation documents must be submitted;

a. Experience

- i. Track record of the bidder with respect to providing Waste Management Services including waste classification (List of projects including brief description of the services provided and client)
- ii. Reference Letters
 1. reference letters for waste classification
 2. reference letters for waste management

b. Technical Capability

- i. Valid City of Cape Town Accreditation as Waste Management Service Provider (**pre-qualification**)
- ii. Valid PrDP (permit to transport dangerous goods) for drivers
- iii. Waste recycling approach and methodology in line with the Waste hierarchy clearly defined
- iv. Registration/permits/licences for any landfill or recycling facility to be used

c. Capacity

- i. Valid copies of Vehicle Licences for skip/RORO trucks with City of Cape Town Operators Card
- ii. Fill and sign the affidavit attached. Uncompleted or unsigned affidavit will not be considered
- iii. Proof of training of personnel (Drivers, assistants, etc.) on waste management or environmental management, (Valid Training Certificates and/or attendance registers from accredited service provider).

TABLE 6.1 (a) : SCHEDULE OF PRICES : Salt River Centre

Skips							
NO.	Business & Area	Position	Size	Monthly Rental per skip	Transportation Costs per lift (Estimated 1 lift every 2nd month. Thus, divide your lift costs by 2 for monthly budget)	Disposal Costs per ton (Estimated 1 ton every 2 nd month. Thus, divide your per ton disposal rate by 2 for monthly budget)	Monthly Total
1	Coaches Shot blast Area	Used Shot blast	6 m ³				
2	Coaches Paint Shop Area	Empty paint, glue and thinners cans	11 m ³				
3	RM, Workshop	Oily rags & oil contaminated PPE	6 m ³				
4	RM, Coil Shop	Epoxy Resin	6 m ³				
5	Wheels Workshop	Oily rags & oil contaminated PPE	6 m ³				
6	RSE	Oily rags & oil contaminated PPE	6 m ³				

Intermediate containers & tankers							
NO.	Business & Area	Position	Size	Replacements (closed top/open top 210 drums) (use total replacement quantity e.g. 3 x R300= R900 for replacement of 3 drums)	Transportation Costs per lift (Estimated 1 lift every 3 months, thus please divide your lifting costs by 3)	Disposal/ Treatment Costs per drum)	Monthly Total
7	Coaches Paint Shop Area	Used thinners & paint mixture	3 X 210 L drums				
8	RM, Bay 6	Used sand blast	1 X 210 L drum				
9	RM/Wheels	Used grease	1 X 210 L drum				
10	RSE	Metal Dust	1 X 210 L drum				
11	Wheels/RM /RSE/SOE	Used coolant & water	2 X 210 L drum	n/a			
12	Wheels	Crater Sludge	1 X 210 L drum	n/a			
13	PEMM	Fluorescent lights	1 X 6 ft. bin	High Volume fluorescent tubes bin is replaced at least 2nd month. Replacement & recycling should be included in a single pricing. Thus, divide your service costs by 2 for monthly budget			
14	RM	Oily water	5000 L	Include the transportation to & treatment costs at the recycling facility in a single pricing for 5 000 L Road Tanker. 1 load a month			
Monthly Subtotal Salt River							

TABLE 6.1 (b) : SCHEDULE OF PRICES : Bellville

Skips							
NO.	Business & Area	Position	Size	Monthly Rental per skip	Costs per lift (Estimated 1 lift every 3 months, thus please divide your lifting costs by 3)	Disposal/ Treatment Costs per ton (estimated 1 ton a month)	Monthly Total
1	Locomotives	Oily rags & oil contaminated PPE	11 m ³				
2	Locomotives	Oil filters	11 m ³				
3	Wagons	Composite brake pads	14 m ³				
Intermediate containers & tankers							
4	PEMM	Fluorescent lights	1 X 6 ft. bin	High Volume fluorescent tubes bin is replaced at least 3rd month. Replacement & recycling should be included in a single pricing. Thus, divide your service costs by 3 for monthly budget			
5	Locomotives	Oily water	5000 L	Include the transportation to & treatment costs at the recycling facility in a single pricing for 5 000 L Road Tanker. Tank emptied at least every 3rd month. Thus, divide your service costs by 3 for monthly budget			
Monthly Subtotal Bellville							

TABLE 6.1 (c) : SCHEDULE OF PRICES : Saldanha

Skips							
NO.	Business & Area	Position	Size	Monthly Rental per skip	Costs per lift (Estimated 1 lift every 3 months, thus please divide your lifting costs by 3)	"Disposal/ Treatment Costs per ton (estimated 1 ton a month) (NB for brakes shoes, estimated 10 tons a month)	Monthly Total
1	Locomotives	Oily rags & oil contaminated PPE	11 m³				
2	Locomotives	Oil filters	11 m³				
3	Wagons	Composite brake pads	3 x 14 m³				
Intermediate containers & tankers							
4	PEMM	Fluorescent lights	1 X 6 ft. bin	High Volume fluorescent tubes bin is replaced at least 3rd month. Replacement & recycling should be included in a single pricing. Thus, divide your service costs by 3 for monthly budget			
5	Locomotives	Gearcase Oil	12 X 210 L	About 12 x 210 L drums gearcase oil drums lifted for disposal once every 3 months (Disposal costs for 4 drums per month)			
6	Locomotives	Oily water	5000 L	Include the transportation to & treatment costs at the recycling facility in a single pricing for 5 000 L Road Tanker. Tank emptied at least every 3rd month. Thus, divide your service costs by 3 for monthly budget			
Monthly Subtotal Saldanha							
Estimated Contract Costs (36 Months)							

TABLE 6.2: SCHEDULE OF PRICES FOR WASTE CLASSIFICATION

Item	Business/Area	Waste description	Proposed classification costs (once off)
Salt River Centre			
	Coaches	Used shot Blast	
	RM	Used sand blast	
	RSE	Metal Dust	
	Wheels	Crater oil sludge	
Bellville Depot			
	Locomotives	Oily sludge, effluent plant	
Saldanha			
	Locomotives	Oily sludge, effluent plant	
Total Waste Classification Costs			
Estimated Contract Costs (36 Months) including waste classification for 6 Waste Streams			

Compiled



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20 August 2021

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13 September 2021

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