

 Eskom National Transmission Company South Africa TM	Scope of Work	Apollo & CS Grid
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Title: Provision of Hydrocarbon Spill Management and Oil Dam Cleaning Services for NTCSA Apollo & Centralized Services

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1. Background

The Apollo Converter Station (CS) functions as the inverter terminal of the 533 kV Cahora Bassa HVDC scheme & CS is responsible for the maintenance and operation of the key sites. The operation and maintenance of the grid infrastructure at Apollo & Centralized Services involves assets and activities where hydrocarbons such as insulating oil, diesel, jet fuel and sewage waste are present. These substances are essential to normal operations but can pose environmental, safety and compliance risks if released, accumulated or not managed appropriately.

Hydrocarbon spill incidents may occur during equipment failure, maintenance activities, transportation, storage or unforeseen emergency events. Oil catchment dams, and related containment systems require periodic cleaning to maintain environmental controls, prevent contamination of soil and stormwater systems, and support safe working conditions on site. In addition, septic tanks need to be constantly emptied to ensure the reedbed system (wastewater treatment plant) connected the tanks is not in operation for its former purpose, and to avoid any potential legal contravention.

This scope of work is therefore necessary to establish access to specialised hydrocarbon spill management and oil dam cleaning services on an “as and when required” basis over a five-year period. The service will enable Apollo & CS to respond promptly to emergency spill events and to manage routine operational cleaning needs in a manner that supports environmental protection, operational continuity and regulatory compliance.

2. Need for the contract/project

The contract is required to ensure that Apollo & Centralized Services Grid has a contract with a competent and compliant service provider/supplier for the management of hydrocarbon spills, sewage waste and the cleaning of oil catchment dams. Due to the presence of oil, diesel, jet fuel, sewage waste and other hydrocarbon sources within operational areas, there is a continuous need to manage both planned cleaning activities and unplanned spill incidents in a safe, compliant and environmentally responsible manner.

3. Legal Framework

The provision of hydrocarbon spill management and oil catchment dams cleaning services shall be undertaken in accordance with applicable South African environmental, water, waste management, occupational health and safety, transport and municipal requirements. The Service Provider shall ensure that all work is performed in a manner that prevents pollution, protects employees and the public, and supports NTCSA's legal and environmental compliance obligations.

- **Constitution of the Republic of South Africa, 1996:** Provides the environmental right to an environment that is not harmful to health or well-being and requires reasonable measures to prevent pollution and ecological degradation.
- **National Environmental Management Act, 1998 (Act 107 of 1998):** Establishes environmental management principles, including the duty of care and the obligation to prevent, minimise and remediate pollution or environmental degradation.
- **National Environmental Management: Waste Act, 2008 (Act 59 of 2008):** Regulates waste management, including storage, handling, transport, treatment and disposal of waste

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such as contaminated absorbents, oily sludge, oil-contaminated soil and other hydrocarbon-related waste.

- **National Water Act, 1998 (Act 36 of 1998):** Requires prevention and remedying of pollution of water resources, including stormwater systems, surface water and groundwater that may be affected by hydrocarbon spills or contaminated runoff.
- **Occupational Health and Safety Act, 1993 (Act 85 of 1993) and applicable regulations:** Requires safe systems of work, risk assessments, competent personnel, appropriate personal protective equipment, safe use of plant and equipment, and protection of workers and other persons affected by the work.
- **Hazardous Chemical Agents Regulations:** Applies where employees may be exposed to hazardous chemical substances during spill response, cleaning, handling, containment, storage or disposal activities.
- **National Road Traffic Act, 1996 (Act 93 of 1996) and applicable dangerous goods requirements:** Applies to the transport of hazardous substances, contaminated materials and waste where such materials are transported by road.
- **Applicable municipal by-laws and site-specific environmental requirements:** Include local requirements relating to waste disposal, stormwater protection, wastewater handling, spill reporting, access control, emergency response and work within NTCSA operational sites.
- **Relevant South African National Standards and recognised industry practices:** Include applicable standards and good practice requirements for spill response, waste classification, waste disposal, containment, emergency preparedness and environmental monitoring.

4. Scope

Services will include the provision of spill management bioremediates as well as collection and disposal of the following:

- **Oil spill** which includes the transformer, reactor, oil transportation, oil drums/storage and vehicle leaks.
- **Petrol and Diesel spills** which also include vehicles and generator leaks.
- **Sewage waste spill** includes overflowing septic tanks and pipes leaks/blast.
- **Battery acid leaks** include spillage/leak from batteries at the battery room.
- **On-site spill management** the management of spillages ensures the environmental protection and human health, also preventing the possibility of fires. The spill management also helps the Grids in compliance with the Environmental Legislations and Regulations.
- **Oil catchment dam cleaning** remove rainwater or water from bund area to the acceptable level and balance the water pressure which will prevent the dam from floating. Ensuring that there is no visible cracks & vegetation, also checking the blockages for civil oil pipes connecting banded area & oil dam and it is free from debris/obstacles.
- **Provision of oil spill kits & waste bins/containers**
- **Septic tank emptying** remove waste from the septic tank and dispose it at an approved facility.

Potential service provider will be required to provide the following services as part of the contract/project

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- Environmental Management Plan detailing the legal requirements and associated risks, licenced landfill sites that must be used for the safe disposal of hazardous waste.
- Provide copies of the applicable permits for the registered landfill sites at which generated wastes will be safely disposed.
- Arrange and perform regular septic tank emptying services, utilizing specialized trucks and equipment, ensuring thorough removal of waste and proper disposal at an approved facility, in accordance with local regulations and standards.
- Utilise only licensed waste disposal facilities appropriate to the specific waste types being handled.
- Provide oil spill management awareness as and when required by the NTCSA-Apollo & CS Representative.
- The NTCSA-Apollo & CS Representative and Service Provider will arrange specific times/dates for services.
- Perform the services at a date and time mutually agreed in writing between the parties.
- Responsible for all the services specified and NTCSA-Apollo & CS will not provide any facilities, labour, or equipment for this purpose.
- Certificates: applicable completed waste manifest, weigh bridge certificate and safe disposal certificate must be presented to the Grid after each service provided on-site or at the premises.
- Waste classification and hazardous rating to be completed in manifest and safe disposal certificates.
- Note that NO PAYMENT will be made until the Grid receives all necessary copy of the waste manifest, weigh bridge certificates and safe disposal certificates.
- The Employer reserves the right, at its sole discretion, to amend the quantities of waste to be collected, transported, or disposed of. The contract does not guarantee any minimum waste quantities.

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- The Employer may issue a stop-work order, or a non-compliance order should NTCSA become aware of any unsafe working practice, hazardous condition, or any instance of non-compliance with applicable legislation, standards, procedures, or other binding compliance obligations.
- Hazardous waste streams will not be mixed with other waste streams on site and during transport once collected from site
- All vehicles entering the sites for the clean-up will be subjected to security checks.
- The staff must comply with all Eskom lifesaving rules and ensure that the vehicle is of a roadworthy condition.

5. Contract timelines

The successful service provider will be contracted for a period of 5 years

5.1 COMMERCIAL PROCESS

- **Invoicing**
 - The service provider will invoice for the services provided in accordance with the issued Purchase Order.
 - In case of oil catchment cleaning and incident spill cleaning, the service provider will be required to provide a clean-up/rehabilitation report;
 - The invoices must be aligned to Contract Lines/Activities. **(NB : The Price list of activities are presented in Appendix A)**

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Appendix A – Price list

A.1 Price List

ESKOM-NTCSA PROVISION OF HYDROCARBON SPILL MANAGEMENT AND OIL DAM CLEANING SERVICES APOLLO AND CENTRALISED SERVICES  Eskom National Transmission Company South Africa TM					
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>PROVISION OF HYDROCARBON SPILL MANAGEMENT AND OIL DAM CLEANING SERVICES</u>				
1	<u>CLEAN-UP</u>				
1.1	Travelling Cost (R/KM)	km	40000	R	-
1.2	Remove contaminated soil by manual labour	m³	1 000	R	-
1.3	Surface cleaning and treatment	m²	2 560	R	-
1.4	Hard surface cleaning by high pressure washer	m²	2 560	R	-
1.5	Treating water in the oil dam using approved chemicals	Litre	75 000	R	-
1.6	Taking sample before discharging water into the environment	No.	50	R	-
1.7	Treatment of hydrocarbon contaminated sludge	Litre	5 000	R	-
1.8	Treatment and cleaning of oil dam walls and pipe outlets (after emptying and pumping out sludge)	m²	6 000	R	-
1.9	Disposal of hydrocarbon contaminated sludge/soil	210l drum	280	R	-
1.10	Drainage of sewage waste from septic tank	Litre	7000000	R	-
1.11	Disposal of sewage waste to a registered landfill site	Litre	7000000	R	-
	SUBTOTAL			R	-
2	Transport				
2.1	Light Delivery Vehicle (LDV)	km	40 000	R	-
2.2	Delivery Vehicle (Truck)	km	40 000	R	-
2.3	Skip truck single unit (6 m³ skip)	km	40 000	R	-
2.4	Skip trailer combo unit (6 m³ skip)	km	40 000	R	-
2.5	Super sucker	km	40 000	R	-
2.6	Tanker	km	12 000	R	-
2.7	Tractor loader backhoe (TLB)	km	40 000	R	-
	SUBTOTAL			R	-
3	Containment				
3.1	Absorbent material loose	kg	7 000	R	-
3.2	Absorbent pads (200g)	ea	3 200	R	-
3.3	Absorbent booms (2m)	ea	192	R	-
3.4	Portable heavy duty absorbent mat	M	16	R	-
	SUBTOTAL			R	-
4	Testing & Disposal				
4.1	Total Petroleum Hydrocarbon (TPH) analysis	Per sample	50	R	-
4.2	Battery Acid (Packaging included)	210 Lt drum	7	R	-
4.3	Battery Acid (Packaging included)	50 Lt	32	R	-
	SUBTOTAL			R	-
5	Washing of Stone				
5.1	Place stone	m³	320	R	-
5.2	Remove stone 1 x 5 done by spade	m³	320	R	-
5.3	Wash in mixer	m³	320	R	-
5.4	Chemicals and environmental degreaser	litre	6 400	R	-
	SUBTOTAL			R	-
6	Safety				
6.1	SHEQ File	Sum	1	R	-
	SUBTOTAL			R	-
	PROVISION OF HYDROCARBON SPILL MANAGEMENT AND OIL DAM CLEANING SERVICES			R	-

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Appendix B – Technical Evaluation

Contract name: Provision of Hydrocarbon Spill Management, sewage waste removal and Oil Dam Cleaning Services for NTCSA Apollo & Centralized Services

Criteria	Weight (%)	Actual Score (%)
1. Company Experience & Track Record <i>Proven experience in:</i> - Fuel spill containment and remediation (Referral letter) - Sewage collection, treatment, and disposal (Referral letter) - Number of years in operation, completed similar projects (include references/referral letter) - Experience with emergency response situations	25 %	
2. Technical Approach & Method statements <i>Method statements for the following:</i> - Fuel spill response (containment, recovery, remediation) - Sewage spill & handling (collection, transport, treatment, disposal) - Waste minimization strategies - Emergency response procedures (24/7 readiness), Turnaround times on callout)	25 %	
3. Compliance & Certifications <i>Competent certificates for:</i> - Waste transportation permits. - Hazardous waste handling licenses - Transportation of Dangerous Goods (TDG) certificate - Permission/Agreement to utilise the hazardous landfill site)	20 %	
4. Personnel & Skills <i>Competent certificates for:</i> - Transportation of Dangerous Goods (TDG) certificate - Valid PrDP (Professional driving permit) - Hazardous waste handling & disposal - Spills response and containment	15 %	
5. Vehicle & Equipment <i>Company vehicle registration certificates (RC1) for:</i> 01 x Vacuum tanker (i.e., 5000L- 16000L) 01 x Hazardous waste tanker truck 01 x skip loader truck. 01 x jetting truck/high pressure jetting trailer 01 x Light delivery Vehicle.)	15 %	
Total (%)	100%	
<i>NB: Kindly note that the threshold for the technical criteria is 90 % and above.</i>		

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