

## C3: Scope of Work

### C3.1 Works Information

#### 1.2 SPECIFICATION:

##### 1. SCOPE

**Part A:** This section details the technical specifications and requirements for Soil Rehabilitation at Fochville Traction Substations.

### **TERMS OF REFERENCE FOR OIL POLLUTION AT FORSHVILLE SUBSTATION**

#### **THE APPOINTMENT OF THE ENVIRONMENTAL BIO-REMEDICATION PRACTITIONER/S TO CONDUCT REMEDIATION AT TRANSNET FREIGHT RAIL FORSHVILLE SUBSTATION.**

##### 1. PURPOSE OF THE CONTRACT

- 1.1 The purpose of the contract is to arrange for the provision of an independent Environmental remediation Practitioner/s or appoint a suitably qualified person with remediation expertise to oversee the remediation activities to undertake site pollution Bio-Remediation.

##### 2. SCOPE OF WORK

- 2.1 This contract covers the responsibilities and services rendered by the remediation Practitioner to undertake the requisite degree of remediating the nature and extent of contamination at Foshville Substation following an oil spillage. The contaminated soil/ground and concrete stones shall be treated **in-situ**.
- 2.2 The appointed contractor must submit a **Remediation Action Plan** to TFR prior to commencement of the remediation activities.
- 2.3 Remediate pollution on contaminated soil/ground over an area within the rail line of to the depth not exceeding 1.5m. It shall be the responsibility of the Contractor to supply the Transnet with a report from a certified laboratory proving that a level of pollution less than the maximum allowed (< 1 000 ppm or mg/kg total TPH) has been achieved in the areas where the Contractor has undertaken rehabilitation.
- 2.4 All applicable Hydrocarbon parameters must be monitored, this include amongst other but not limited to:

*FIELD PARAMETERS: PH; TEMPERATURE (°C) ELECTRICAL CONDUCTIVITY (MS/M); TOTAL DISSOLVED SOLIDS (TDS) (MG/L); ALL HYDROCARBON PARAMETERS.*

*2.5 SOIL EXCAVATED DURING ENGINEERING WORKS/REMEDIAL ACTIONS MUST BE SEGREGATED INTO AT LEAST TWO (2) SEPARATE STOCKPILES, THAT IS, UNCONTAMINATED AND CONTAMINATED SOIL/STONES.*

*2.6 CONTAMINATED SOIL AND CONCRETE STONES MUST AS FAR AS POSSIBLE BE TREATED ON-SITE AND MUST BE REUSED ON SITE TO MINIMISE THE AMOUNT OF WASTE DISPOSED IN LANDFILLS.*

### **3. MONITORING AND TESTING**

Sampling of soil should be carried out (before, during & after bioremediation) to ensure the polluted material is free of pollution through regular monitoring of the area.

### **4. REPORTING ON REMEDIATION PROGRESS**

4.1 The following reports should be submitted:

4.1.1 Remediation Action Plan;

4.1.2 A detailed Remediation report within 30 days after remediation;

4.2 The progress reports must entail amongst other information the:

4.2.1 Progress with regard to level of contaminants in the contaminated land (including laboratory results) and

4.2.2 Degree to which other receptors were affected by contaminants.

### **5. CLOSURE OF THE REMEDIATION ACTIVITY**

5.1 Submit a detailed remediation closure report

5.2 The closure report must include the following:

5.2.1 Evidence to demonstrate that the site does not pose any significant harm to the environment and/or human health either immediate or in future;

5.2.2 The closure report includes a description of all site activities conducted and remediation methods used, the quantity of contaminated material treated or disposed, and all analytical data generated; and

5.2.3 Any other information relevant to the completion of the remediation work.

### **6. DELIVERABLES**

6.1 A detailed proposal including:

- method statement on how the pollution rehabilitation work shall be carried out;
- specifications of materials to be used;
- budget with a clear breakdown of professional fees and disbursements;

6.2 An environmental technical report on the work carried upon completion to satisfy both TFR and Government authorities' requirements

6.3 Laboratory results and analyses

6.4 Soil sampling reports

6.5 Produce a detail Remediation report, Progress and Final Reports

**7. INSTRUCTION TO THE APPOINTED CONTRACTOR**

7.1 The prospective service provider must provide a quote for the proposed site rehabilitation

7.2 The contractor and his team must undergo induction training before starting on site given by Transnet Freight Rail.

**8. MEASUREMENT AND PAYMENT**

Payment shall be done on two phases, where first payment will be done on the completion of work on site to the satisfaction of the above scope, the environmental specialist and approved report submitted, 80% of the total cost will be paid on the submission of the correct invoice (Supply Chain Management Process also apply in this case), the remaining balance of costs (20%) shall be paid when all work or monitoring has been completed and results submitted to TFR environmental office, and a sign off received where necessarily, the second phase will normally take at least three months to complete.

**9. QUALIFICATION AND RESOURCES OF THE POTENTIAL SERVICE PROVIDERS**

9.1 Safety Plan / Risk Assessment

9.2 Qualifications and CV/s of Project Team leader/s: Qualification in Chemistry, analytical Chemistry or Environmental Sciences and experience in waste pollution remediation processes

9.3 Company's experience in historic pollution rehabilitation (at least 5 projects and at most 10 projects)

**10. STANDING TIME**

This contract does not make provision for the time lost due to rain, inclement weather or any other cause. Any such time lost or production shall be to the successful Service Provider's account.

**11. TERMINATION OF CONTRACT**

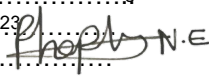
11.1 Transnet shall have the right to terminate the above contract on grounds of non-performance, or unsatisfactory performance on the part of the service provider in the execution of this project.

11.2 Termination shall take place only after thorough consideration and due notification of grounds being provided by the Environmental Specialist or Manager in writing, with a notice period of five (5) working days.

**11. GENERAL REQUIREMENTS**

The Service Provider shall at all times respect client privilege and confidentiality as vested in Transnet Freight Rail and shall neither by word nor action jeopardize Transnet Freight Rail's interests in the execution of the project. The above notwithstanding; Transnet Freight Rail will not in any way impinge upon nor constrain the professional independence of the appointed Service Provider.

TRANSNET FREIGHT RAIL  
TENDER NUMBER:  
DESCRIPTION OF THE WORKS:

Name Ntsudeni Phophi.....  
Position Maintenance Manager  
Date 23/08/2023.....  
Signature  N.E