* 1. Environmental requirements
     1. The contractor is responsible for the overall execution of the activities required for construction and rehabilitation works according to the environmental requirements outlined in this document and those included in the table below:

|  |  |
| --- | --- |
| Environmental document | Applicability to this project (Yes or No) |
|  |  |
| Environmental Authorisation (EA) | NO |
| Environmental Management Programme (EMPr) | YES |
| General water use authorisation (GA) | NO |
| Protected tree cutting permit | NO |
| Protected plant species permit | NO |
| Approval from Management authority for Protected areas | NO |
| Water use license (WUL) | NO |
| South African Heritage Resources agency (SAHRA) approval letter | NO |
| SAHRA demolition permit | NO |
| SAHRA artefacts relocation permit | NO |
| SAHRA grave exhumation and relocation permit | NO |
| Environmental Maintenance Management Plan (EMMP) | NO |
| Waste Permit | NO |
| Borrow pit license | NO |
| SAHRA permit for burial ground impacts | NO |

* + 1. The *Contractor* shall:-
       1. Provide all employees with training on the Eskom Environmental Management Plan (EMP), Contractor EMP, Contractor Waste Management Plan, Contractor Environmental Emergency Preparedness Plan prior to construction.
       2. Carry out at least one environmental emergency drill during construction.
       3. Assign a resource for implementation and day-to-day monitoring of the **Environmental Management Plan**;
       4. Demonstrate environmental competence by providing evidence of the companies’ environmental policy;
       5. Keep an **Environmental Incident Register** on site, which must be regularly updated by the *Contractor* throughout the entire construction period.
       6. Keep a Waste disposal register on site in which the disposal of waste shall be recorded tracked.
       7. Keep a non-compliance register on site in which the non-compliances will be recorded and closed.
       8. Keep Material Safety Data Sheets (MSDS) for all hazardous material to be used on the project.
    2. Other special environmental restrictions which must be adhered to and as stipulated in the **Environmental Management Plan** are:-
       1. The irresponsible use of welding equipment, oxy-acetylene torches and other naked flames which could result in veld fires or constitute a hazard.
       2. No driving over the wetland at the gate of the farm where access road start.
       3. No site camp to be established within 100 from the wetland at the gate.
       4. Indiscriminate disposal of rubbish or rubble.
       5. Deliberate littering of the site.
       6. Spillage of potential pollutants, such as petroleum products.
       7. Lighting of fires for cooking, heating or other purposes, and failure to exterminate any fires.
       8. Use of any facility other than the chemical toilets provided.
       9. Burning of wastes and cleared vegetation under any circumstances.
       10. The use of rivers, streams, dams or any watercourses/surface water for washing purposes.
       11. Entering areas outside of the demarcated construction area.
       12. The presence of construction staff at the construction site outside of the designated construction times (06h00-18h00) i.e. no construction staff are allowed to overnight on site, outside of the demarcated construction camp.
    3. Payment Items:
       1. Use and maintenance of Environmental Incident Register ………….…….……..…………Unit: wks

The unit of measure shall be the duration in weeks (wks) for the use and maintenance of Environmental Incident Register in accordance with **1.2.2**. The rate shall include full compensation for all material, labour, transport, plant, and equipment for the duration of the project.

* + - 1. Use and maintenance of Waste Disposal Register ………….…….……..…………Unit: wks

The unit of measure shall be the duration in weeks (wks) for the use and maintenance of Waste disposal Register in accordance with **1.2.2**. The rate shall include full compensation for all material, labour, transport, plant, and equipment for the duration of the project.

* + - 1. Compliance with environmental legislation and specifications specified in the EMP …….Unit: wks

The unit of measure shall be the duration in weeks (wks) for ensuring compliance with all environmental legislation and specifications in accordance with the project specific **Environmental Management Plan**. The rate shall include full compensation for all material, labour, transport, plant, and equipment for the duration of the project.

* + - 1. Provision of Environmental Management System tools on the projects, tools include:…...Unit:wks
* Minimum two labelled dust bins (General and Hazardous)
* One Oil spill kit for the site camp and one oil spill kit per team on site
* One drip tray per stationary vehicle and fuel filled equipment on site

The unit of measure shall be each in use and maintenance on site in accordance with 1.2.2. The rate shall include full compensation for all material, labour, transport, plant, and equipment for the duration of the project.

* + - 1. Barricading tape and 1 meter poles to barricade around open holes and trenches on site…..Unit:wks

The unit of measure shall be the duration in weeks (wks) for the use and maintenance of barricading and poles in accordance with 1.2.2. The rate shall include full compensation for all material, labour, transport, plant, and equipment for the duration of the project.

* + - 1. All vehicles and equipment to be used on site must be serviced as per service plan……Unit:each

The unit of measure shall be each used on site in accordance with 1.2.2. The rate shall include full compensation for all material, labour, transport, plant, and equipment for the duration of the project.

* + - 1. Hazardous waste must be disposed of at a hazardous waste disposal facility

The unit of measure shall be the duration in weeks (wks) for the use and maintenance of Environmental Incident Register in accordance with 1.2.2. The rate shall include full compensation for all material, labour, transport, plant, and equipment for the duration of the project.

* + - 1. Dust suppression water spraying method – Water to spray, Water Spraying equipment

The unit of measure shall be the duration in weeks (wks) for the use and maintenance of Environmental Incident Register in accordance with 1.2.2. The rate shall include full compensation for all material, labour, transport, plant, and equipment for the duration of the project.

* + - 1. Provision and maintenance of portable chemically maintained toilet for male and females respectively on site. Toilets must be maintained once a week and proof of safe disposal must be obtained from service provider.

The unit of measure shall be the duration in weeks (wks) for the use and maintenance of Environmental Incident Register in accordance with 1.2.2. The rate shall include full compensation for all material, labour, transport, plant, and equipment for the duration of the project.

* + - 1. The contractor must make provision for the procurement of snake handlers and bee keeper services on the project in the event when snakes, bees or any other dangerous wildlife is encountered on site

The unit of measure shall be the duration in weeks (wks) for the use and maintenance of Environmental Incident Register in accordance with 1.2.2. The rate shall include full compensation for all material, labour, transport, plant, and equipment for the duration of the project.

* + - 1. The contractor must obtain written permission from the owner of a licenced landfill site to dispose of the construction general waste via letter and/ or email.

The unit of measure shall be the duration in weeks (wks) for the use and maintenance of Environmental Incident Register in accordance with 1.2.2. The rate shall include full compensation for all material, labour, transport, plant, and equipment for the duration of the project.

* + - 1. The contractor team must include or procure the services of a registered Pest Control Officer (PCO) to carry out herbicide application in line with prescriptions given in Eskom EMP, on the construction site where applicable.

The unit of measure shall be the duration in weeks (wks) for the use and maintenance of Environmental Incident Register in accordance with 1.2.2. The rate shall include full compensation for all material, labour, transport, plant, and equipment for the duration of the project.