

Environmental Requirements: Installation of Solar PV Plant at Duvha Power Station

- The contractor shall be made aware of the Environmental Authorization issued for this project and shall conduct all activities in compliance with the authorization requirements.
- A geotechnical survey must be performed by the contractor to ascertain subsurface conditions of the site and to understand the substrata. When conducting Geotechnical survey, the contractor must ensure the backfilling of material excavated and closeup of any holes created in the process.
- Ensure that the grid connection is designed and constructed in a manner that minimizes environmental impact.
- The contractor must submit an environmental policy that is in line with ISO 14001:2015, this must be signed by top management of the company.
- The contractor must submit a method statement detailing how the design, construction and commission shall be conducted. The method statement must also include the layout of the construction campsite in the form of a plan showing the location of key infrastructure and services (where applicable), including but not limited to offices, vehicle parking areas, stores, the workshop, stockpile and lay down areas, hazardous materials storage areas (including fuels), the batching plant (if one is located at the construction camp), designated access routes, equipment cleaning areas, ablution facilities, waste and wastewater management. During construction, a method statement must be provided for every phase of the project and for every activity that will be conducted.
- The contractor to Compile an Emergency Response Plan prior to the commencement of the proposed project. The Emergency Plan must deal with accidents, harsh weather conditions, disasters, wildlife interactions, potential spillages and fires in line with relevant legislation.
- The contractor shall ensure that an Environmental Officer is appointed to oversee environmental compliance and monitoring during the pre-construction and construction phase.
- The contractor shall provide a waste management plan which must be in line with the Duvha Waste Management Procedure ENVP0005 for the management of hazardous materials such as chemicals used in cleaning and maintenance of the plant.
- The contractor must ensure compliance to the Duvha Waste Management (ENVP0005) and Hydrocarbons procedure (ENVP0030).
- Clearing of vegetation: The contractor must employ sustainable methods for vegetation clearance. For any cutting and removal of non-indigenous trees and plants, an herbicide for the control of further spreading of seeds must be used.
- Soil material: Any uncontaminated topsoil material that is generated during excavations must be stockpiled at a designated area and provisions for preserving the soil must be made (e.g. covering the soil and preventing it from contamination and being blown away or erosion etc).
- During construction, the Contractor must develop strategies to mitigate high dust emissions that could emanate as a result of the activities (such as site clearance and other associated activities)
- The Contractor is responsible for the implementation of this EMP and EA and must ensure works on site are conducted in an environmentally sensitive manner and fully

in accordance with the requirements of the EMPr, at all times. The contractor must ensure that an Environmental Officer is appointed to oversee environmental compliance and monitoring during the pre-construction and construction phase and assist with the implementation of the EMPr.

The EO will be responsible but not limited to the following:

- a) Conduct a pre-construction survey of site, together with the ECO. The EO will document findings of the pre-construction survey in a report with photographic reference for the ECO to review before construction commences.
- b) The designated no go areas, as agreed with by Eskom and the ECO must be demarcated before construction commences.
- c) Ensure that all appointed sub-contractors are aware of this EMPr and their responsibilities in relation to the implementation of EMPr.
- d) Basic environmental awareness training shall be carried out for all employees and shall be included in safety training/induction.
- e) A copy of the EMPr shall always be made available on site.
- f) Conduct daily inspections of site and maintain a daily record of all environmental related activities on site.
- g) Implement a public's complaint procedure and ensure that all complaints are documented and all public comments or issues are appropriately addressed.
- h) Ensure that environmental mitigation measures are included in construction method statements for implementation.
- i) Ensure that the Code of Conduct is signed by all personnel responsible for activities that could have a negative impact on the environment.
- j) Maintain and manage an incidents and non-conformance register.
- k) Compile Method Statements for the following but not limited to:
 - Environmental Training
 - Pollution Prevention
 - Waste Management
 - Hazardous Chemical Management
 - Storm Water Management
 - Emergency Response
 - Re-vegetation and habitat rehabilitation
 - Rescue and relocation of fauna, avifauna and flora
 - Alien invasive management
 - Traffic management
 - Fire management
 - Erosion prevention and management; and
 - Complaints Procedure.
- l) Keep the following on file but not limited to:
 - Daily reports/inspection checklists
 - Environmental Training records
 - Spill/Incident Register
 - Waste disposal certificates/waybills

- Copies of all permits and agreements required during the construction phase
- Non-conformance reports.