

A) EMP ADMINISTRATION

Copies of this EMP shall be kept at the site office and will be distributed to all senior contract personnel. All senior personnel shall be required to familiarise themselves with the contents of this document.

B) ROLES AND RESPONSIBILITIES

The implementation of this EMP requires the involvement of several stakeholders, each fulfilling a different but vital role to ensure sound environmental management during the construction phase.

1. THE DEVELOPER [Longyuan Mulilo De Aar Wind Power (Pty) Ltd]

The Developer refers to the Longyuan Mulilo De Aar Wind Power (Pty) Ltd who is ultimately responsible for compliance with all conditions of approval of the development or any aspect thereof by any authority.

With respect to the construction phase of the Development, the Developer is to:

- ensure that all relevant approvals and permits have been obtained prior to the start of construction activities on site;
- ensure that the EMP has been approved by the Department of Environmental Affairs (DEA) prior to the start of construction activities on site;
- appoint an independent suitably qualified or experienced Environmental Control Officer (ECO) prior to the start of construction activities on site, and for the duration of the construction phase;
- provide all principal contractors working on the project with a copy of this EMP as part of tender contract documentation to allow the contractors to cost for its requirements within their respective construction contracts.

2. THE ENGINEER

For the purposes of this document “The Engineer” refers to the engineer for the development, or any other person (such as the architect/project manager/principal agent) authorised by the Developer, to be undertaken.

The responsibilities of the Engineer are to:

- ensure that the requirements as set out in this EMP and by the relevant Authorities are adhered to and implemented;
- assist the ECO in ensuring that the conditions of the EMP are being adhered to and promptly issuing instructions requested by the ECO, to the Contractor. All site instructions pertaining to environmental matters issued by the Engineer are to be copied to the ECO;
- assist the ECO in making decisions and finding solutions to environmental problems that may arise during the construction phase;
- reviewing and approving construction method statements with input from the ECO;
- ordering the removal of person(s) and/or equipment not complying with the specifications or issuing a stop works order (as required by the ECO or otherwise);
- issuing of penalties for transgressions of environmental site specifications;
- providing input into the ECO’s ongoing internal review of the EMP.

3. THE CONTRACTOR

For the purposes of this document "The Contractor" refers to any directly appointed (by the Developer) company or individual undertaking the implementation of the works.

The Contractor is to:

- ensure implementation of all applicable Environmental Management Specifications, including all additional requirements related with approved method statements, during all works on site, failing which penalties, as outlined in the environmental management specifications may be imposed by the ECO;
- ensure that all of its sub-contractors, employees, suppliers, agents or servants etc. are fully aware of the environmental management requirements detailed in the Environmental Management Specifications;
- liaise closely with the Engineer and the ECO and ensure that the works on site are conducted in an environmentally sensitive manner;
- inform the Engineer as well as the ECO should environmental issues on site go wrong, e.g. dumping, pollution, littering;
- carry out instructions issued by the Engineer, on request of the ECO, required to fulfil his/her compliance with the EMP.

4. ENVIRONMENTAL CONTROL OFFICER'S DUTIES

The ECO's duties, *inter alia*, must be to ensure compliance with the EMP through monitoring and proactive and open communication channels with the project/site management and, when necessary, enforce the environmental requirements

The ECO's responsibilities should include the following:

- monitoring and verifying that the EMP is adhered to at all times and taking action if the specifications are not followed;
- to environmentally educate and raise the awareness of the Contractor and his staff as to the sensitivity of the Site and to facilitate the spread of the correct attitude during works on Site;
- ensure that educational information is displayed in strategic positions;
- take immediate action on Site where clearly defined and agreed no go areas are violated, or in danger of being violated, and to inform the Engineer/ Developer of the occurrence and action taken;
- monitoring and verifying that environmental impacts are kept to a minimum;
- reviewing and approving construction method statements together with the Engineer/Developer;
- assisting the Contractor in finding environmentally responsible solutions to problems;
- keeping records of all activities / incidents on Site in a Site Diary concerning the environment;
- inspecting the Site and surrounding areas regularly (minimum weekly) with regard to compliance with the EMP;
- Keeping a register of complaints and report these first to the Engineer/Developer for action / follow-up;
- requesting the removal of person(s) and/or equipment not complying with the specifications (done via the Engineer/Developer);
- recommending the issuing of penalties for transgressions of environmental site specifications to the Engineer/Developer;
- completing start-up, monthly and site closure checklists;
- keeping a photographic record of progress on Site from an environmental perspective;

- liaise with interested and affected parties to ensure that they are kept up to date on the project;
- Undertaking a continual internal review of the EMP and making recommendations to the Engineer/Developer.

The ECO has the authority to recommend to the Engineer/Principal Agent that works be stopped, if in his/her opinion serious harm to, or impact on, the environment is imminent, is likely to occur or has occurred and such actual or potential harm or impact is in contravention of this EMP, and which is, or may be, caused by construction, or related works. All stop works orders to the Contractor are, as normal, to be issued through the Engineer or Principal Agent. However, should the PA not be readily available in an emergency case or be in dispute with the ECO regarding work stoppage, then the ECO shall, in these exceptional circumstances, have the authority to recommend to the Department of Environmental Affairs and Development Planning that works be stopped.

Upon failure by the Contractor or Contractor's employee to show adequate consideration to the environmental aspects of this contract, the ECO may recommend to the Engineer and the project management team to have the Contractor's representative or any employee(s) removed from the site or have work suspended until the matter is remedied. No extension of time will be considered in the case of such suspensions and all costs will be borne by the Contractor.

The ECO will be responsible for the compilation of a final closure checklist for the project, completed when all works related to the project have been completed and the site has been cleared of all construction related debris, materials or equipment not forming part of the permanent works. This checklist will audit the Contractor's compliance with the EMP throughout the duration of the construction phase and this checklist, together with a final written report will be submitted to the Department of Environmental Affairs and Development Planning in order to achieve "environmental closure" of the site.