

### Annexure A: EMP compliance check list

Issues/ Aspects	EMP conditions	Compliance rating.	Comments
<b>General</b>	<ul style="list-style-type: none"> <li>• A copy of the EMPr must always be made available on site.</li> <li>• The contractor shall keep the construction clean at all times.</li> <li>• No waste is to be disposed of on-site and construction personnel are required to confine their activities within the approved work site.</li> <li>• The contractor and his personnel are advised to familiarize himself with the EMPr as well as the conditions set out in the Environmental Authorization issued for this development.</li> </ul>	<b>5</b>	The EMPr and EA are on site and the team are very aware of environmental aspects, impacts and mitigation measures
<b>Site preparation and clearing.</b>	<ul style="list-style-type: none"> <li>• Vegetation on the site may be removed but care must be taken to confine removal of vegetation during construction activities to within the boundaries of the development area.</li> <li>• Only areas affected by the development footprint may be cleared.</li> <li>• Vegetation clearing must be kept to an absolute minimum. Mitigation measures must be implemented to reduce the risk of erosion and the invasion of alien species.</li> </ul>	<b>3</b>	The site is already setup, The Camp site is well fenced with accommodation and ablution facilities. The storage and plant parking are is not enclosed, gated and manned.
<b>Heritage sites and features</b>	Archaeological remains, artificial features and structures older than 60 years are protected by the National Heritage Resources Act, 1999 (Act 25 of 1999). Should any archaeological artefacts be exposed during excavation for the purpose of construction, construction	<b>5</b>	No Historical remains have been unearthed so far.



Issues/ Aspects	EMP conditions	Compliance rating.	Comments
	<p>in the vicinity of the finding must be stopped immediately. A registered Heritage Specialist must be called to the site for inspection. Under no circumstances shall any heritage material be destroyed or removed from the site. The relevant heritage resource agency must be informed about the finding.</p> <p>Heritage remains uncovered or disturbed during earthworks must not be disturbed further until the necessary approval has been obtained from the South African Heritage Resource Agency and/or any of their delegated provincial agencies. See also condition 39 of the EA.</p>		
<b>Waste and refuse Management</b>	<p>The contractor shall ensure enough waste collection facilities are available on site for collection of waste prior to disposal. He/she must ensure that all refuse is disposed of by him/her and his sub-contractors' employees in refuse bins supplied and arrange to be emptied on a weekly basis. The contractor shall be responsible for the establishment of a refuse control and removal system that prevents the spread of refuse within and beyond the construction site.</p>	<b>3</b>	<p>The camp site has bins on site in strategic places. The field teams carry a plastic bags to collect waste and dispose at the camp site bins at the end of the day. Waste separation practice is not consistent at the camp site.</p>
<b>Public safety</b>	<p>The contractor must ensure that his employees comply with the Occupational Health and Safety Act (OHSA) (Act No. 85 of 1993). All reasonable measures must be taken to ensure the safety of all personnel on site and that of the public.</p>	<b>3</b>	<p>Protection to the public people and livestock are being implemented. Inconsistence in barricading of excavations. Workers are provided with full PPE relevant for the tasks.</p>
<b>Noise control</b>	<ul style="list-style-type: none"> <li>No work is to be done after hours, working hours must be strictly adhered to (<i>The operational schedule must be strictly adhered to. Work hours during the construction phase shall be</i></li> </ul>	<b>3</b>	<p>The major localized noise is generated from machinery but it is away from residential and sensitive area. Workers are at risk of ear damage due to excessive exposure to noise. <b>Ear plugs are supplied.</b></p>



Issues/ Aspects	EMP conditions	Compliance rating.	Comments
	<p><i>strictly enforced unless permission is given. Permission shall not be granted without consultation with the adjacent landowners by the CLO);</i></p> <ul style="list-style-type: none"> <li>• Construction vehicles and machinery must be kept in good order so not to cause excessive noise;</li> <li>• Employees exposed to high level of noise must be provided with ear protection gear.</li> </ul>		<p><b>At the camp site avoid playing loud music as this disrupt other residence.</b></p>
<p><b>Air quality</b></p>	<ul style="list-style-type: none"> <li>• The contractor must take appropriate and reasonable measures to minimise the generation of dust resulting from his works and that of his sub-contractors. Particular attention must be given to preventing dust generation during excavation and stockpiling and transportation activities. Corrective and preventative measures shall include but not be limited to:</li> <li>• Regular and effective treatment of working areas using water sprays and appropriate scheduling of dust-generating activities (<b><i>potable water cannot be used as a means of dust suppression, alternative measures must be sourced</i></b>);</li> <li>• Covering for all load beds when transporting;</li> <li>• The construction camp shall be watered during dry and windy conditions to control dust fallout.</li> <li>• Concrete bags must not be allowed to blow around the site and spread cement dust.</li> </ul>	<p><b>4</b></p>	<p>Dust generation from vehicle generation evident and but not critical. Drive at low speed of 30km/h or less.</p>



Issues/ Aspects	EMP conditions	Compliance rating.	Comments
<b>Soils and erosions</b>	<ul style="list-style-type: none"> <li>The contractor shall temporarily stockpile excavated materials (e.g. soils and rocks) and construction materials in such a way that the spread of materials is minimised.</li> <li>No areas may remain cleared (bare soil exposed) Efficient construction planning must ensure that all relevant materials, construction equipment and manpower are available upon commencement of construction in an area. Thereafter, the cleared areas must be suitably re-vegetated. Such areas must not be further disturbed. These areas shall be demarcated as no-go areas to allow vegetation cover to re-establish so as to prevent possible soil erosion.</li> </ul>	<b>3</b>	No evidence of erosion was observed. Hence evidence of multiple access roads being used was observed. Still to one access road.
<b>Excavations, trenching and back filing</b>	All excavations for any purpose must be preceded by selective striping and stockpiling of topsoil for rehabilitation purposes of affected areas. Temporary stockpiles shall be done in a manner which will avoid erosion. Excavated areas must be barricaded to warn personnel of associated dangers.	<b>3</b>	Excavated is stock piled safely. Some excavated holes are not barricaded
<b>Pollution control</b>	Mixing of cement, concrete, paints, solvents, sealants and adhesives must be done in specified areas on concrete aprons or on protected plastic linings to contain spillage or overflows onto soil to avoid contamination to underground water and environmental damage. Appropriate measures must be taken to prevent pollution of surface and/or groundwater.	<b>5</b>	No oil leaks were noted
<b>Toilet facilities</b>	<ul style="list-style-type: none"> <li>The contractor shall make provision of sanitation for his and the sub-contractor's staff during the construction phase. A minimum of one chemical</li> </ul>	<b>3</b>	Toilets provided at both the camp site and for field workers. Toilets not very clean and no toilet roll, hand washing water and soap was provided. The women lodging at the camp site



Issues/ Aspects	EMP conditions	Compliance rating.	Comments
	<p>toilet shall be provided per 15 persons.</p> <ul style="list-style-type: none"> <li>Chemical sanitation facilities or systems such as “toilets” that do not rely on seepage of liquids must be provided with a ratio of one for every 15 workers. These toilets must be placed such that they prevent spills or leaks to the environment and must be maintained according to operating instructions and the contents thereof must be disposed of at an authorized sewage works.</li> </ul>		<p>have no ablution facilities provided. This must be provided if it is allowed by the Company Policy for accompanying spouse or they must leave the site. There is no provision of sanitary bins as well.</p>
<b>Fires</b>	<p>The contractor must take all reasonable measures to ensure that fires are not started as a result of construction activities on site, and shall also ensure that their operations comply with the Occupational Health and Safety Act (Act No. 85 of 1993).</p>	<b>4</b>	<p>No fire evidence noted</p>
<b>Impacts on fauna and flora</b>	<p>The removal, damage or disturbance of any flora and fauna outside the construction area is not permitted unless specifically authorised by the ECO.</p>	<b>5</b>	<p>No bush clearance has been done.</p>
<b>Management and monitoring</b>	<p>The appointed ECO/SAFETY OFFICER, contractor as well as the construction personnel shall be responsible for ensuring compliance with conditions of the EMPr. Monthly EMPr compliance audits shall be compiled by the ECO and submitted to the contractor for his/her review and correction of non-compliance issues. It is the responsibility of the ECO/SAFETY OFFICER to report any non-compliance, which is not correctly rectified to the DEA. Interested and Affected Parties must be allowed access to the EMPr document. They have the right to monitor specific aspects of the EMPr (e.g. <b>noise</b></p>	<b>5</b>	<p>An ECO has been appointed for the project. This would be monitored continuously throughout the construction period. Non-compliance reported in meetings. Failure to address the issues will entail taking the case up with DEA and closure of site.</p> <p>On site a Safety Officer has been appointed also to manage the construction process.</p>



Issues/ Aspects	EMP conditions	Compliance rating.	Comments
	<p><i>regulations, working hours stipulated</i>) in conjunction with the contractor in a reasonable and informal manner, without unreasonably disrupting construction activities.</p> <p>Environmental issues shall be discussed during progress meetings. The ECO, or a designated person involved with environmental issues on the project, shall attend the progress and/or site meetings on a regular basis to provide feedback on any outstanding or contentious environmental matter.</p>		
	<b>TOTAL</b>	<b>49/70*100= 70%</b>	<b>70% Broad Compliance</b>



**Compliance rating checklist**

Score/Rating	Compliance rating	Definition
4	Full compliance	All activities, conditions and requirements 85> 100% have been addressed.
3	Substantial compliance	75> 85% met
2	Broad compliance	50>75% met
1	Partial compliance	25>50% met
0	Non compliance	0>25% None of the activities, conditions or requirements has been addressed.

*Table 1 indicating compliance rating used by ECO*

**Nyasha Mapira**

.....

**Shumani SHE Specialists**

.....29th July 2016 .....

**Date**

.....  
**Contractor**

.....  
**Date**

.....  
**Project Manager/Resident Engineer**

.....  
**Date**

