



**CONSTRUCTION ENVIRONMENTAL AUDIT CHECKLIST**

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NO	ENVIRONMENTAL ASPECTS	COMPLIANCE OR NON-COMPLIANCE COMMENTS	CORRECTIVE ACTION	CONDITION CLAUSE	% RATING
<b>Environmental Policy</b>					
<b>Environmental Management Plan (EMP) and Environmental Authorisation (EA) Training/Awareness</b>					
1.	Has EA EMP been communicated to an agent, sub-contractor, employee or any person rendering a service to the holder of the authorisation? This includes the Eskom SHEQ Policy and must be displayed.	Y. Agents & Opti-power trained.			1
<b>Planning - Environmental Aspects</b>					
<b>Working Areas</b>					
	Have construction activities remained within the designated working areas?	Y.			1
2.	Inform the contractor about the no go areas/work restrictions i.e. sensitive vegetation/species and watercourses etc.				
3.	Is the housekeeping done neatly i.e. stockpiling of materials & equipment's etc.	Y.			1
4.	Are vehicles parked in their demarcated parking areas?	Y.			1
5.	Are working areas well defined with a	Y. Temporary fence.			1

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	fence or danger tape, in case of powerline, the servitude width 18m for 11 - 22kV and 45m for 132kV	Gardian to start with pallisade fence on 29/06/2015.		
<b>Property Access and Camp Establishment</b>				
6.	Was permission obtained from the property owners before construction commence?	Y. Eskom property		1
7.	Do the property owners have unrestricted access to their property?	Y		1
8.	Are all access roads and camp establishment created with the assistance of ECO /Botanist /Freshwater Specialist or Site Engineer? If applicable	Y. Only access road created is the one into the substation.		1
9.	Were entrance gates, walls, paths, roads and fence rehabilitated satisfactorily as per EA-EMP conditions i.e. landowners	No need to rehab-ilitate @ this stage.		N/A
<b>Vegetation Management</b>				
10.	Are applicable permits available for indigenous vegetation clearance, cutting, disturbing, damaging or trimming of protected/dangerous trees and monumental trees as per	N/A. No agricultural land & therefore no indigenous vegetation.		N/A



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	applicable SAHRA and City Bylaws acts?			
	Is the servitude or working area cleared of alien vegetation as per 32-247 Standard for Bush Clearance and maintenance within overhead Powerline servitude procedure i.e. firebreak	Y.		
11.	Have all bush clearing and herbicide methods been undertaken under the supervision of a registered Pest Control Officer (PCO) i.e. produce valid letter from DAFF	N/A. No herbicide usage		N/A
12.	Clearance of vegetation in Critical Biodiversity Areas (CBA) must be done with an approved method statement by the ECO and or specialist recommendation as per EA i.e. site, area, height and timing	N/A. Not a CBA.		N/A
<b>Spillages</b>				
14.	Is there a stock of adequate oil spill remediation kit i.e. oil spill kit	Y. In the site office.		

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15.	Have any spill/leak occurred on site i.e. oil, chemical, diesel, paint, sewer and waste water. Are the spills/leaks visible from construction site	N.			1
16.	Have the spills been managed according to Western Cape Operating Unit Oil Spill Management Instruction reference no. 240-79588150.	No drip trays under plant & drip tray under bousar has no plug.	NCR will be issued for next non-conformance.		0
Natural Heritage Resources					
17.	Were there any tribal graves, archaeological and paleontological sites identified before or during the construction activities?	N			1
18.	If yes, was construction stopped and the ECO contacted immediately?	N/A			N/A
19.	Was the Heritage Resource Agency or a Heritage Specialist contacted immediately?	N/A			N/A
Portable Toilet/Sanitation					
20.	Are there sufficient portable toilets i.e. 1:8 - 10 people and within walking distance	Y. Three on site.			1
21.	Portable toilets to be serviced weekly i.e. clean, smell good, toilet roll &	Y. Does not smell.			1



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functional at all times. Services receipts available			
Sanitation and ablution facilities should not result in an impact on the environment? Sewage spillage etc.	No pollution.		1
<b>Integrated Waste Management</b>			
22. Is there an integrated waste management system in place i.e. intervals for waste disposal, bins labelled accordingly, proper waste storage and tightly contained, waste separation and recycling etc.	y. minimisation recycling at dump site disposal @ matmesbury munic dump. bins labelled & lids		1
24. Are there sufficient waste bins on site?	y.		1
25. Was litter noted during site inspection?	N		1
26. Waste Manifest, Safe disposal certificate from the landfill site and Letter of agreement from the Municipality to comply with Waste General Notice (GN) No. 435 of 2011, Annexure 1 & 2. All other provisions of NEM:WA to be complied with if	could not confirm as site office was locked.		1

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	applicable.				
27.	Are the hazardous and non-hazardous products (paints, paste, chemicals etc.) labelled and have Material Safety Data Sheet (MSDS)?	Y. Stored in designated area.			1
<b>Additional Environmental Aspects</b>					
28.	Are there trained fire fighter and adequate fire-fighting equipment in appropriate places i.e. valid fire extinguisher	Y.			1
29.	Are there effective dust control (if necessary) measures in place.	No dust issues. Presently wet weather			1
30.	Are there noise control (if necessary) measures in place.	No noisy activities at this stage.			1
31.	Are there any erosion control (if necessary) measures in place?	No erosion on site.			1
32.	Are there top soil management in place i.e. separation of top soil vs. sub-soil, backfilling and levelling (if necessary)?	Y. Separated.			1
33.	Is there any impact on the water resource - wetland, stormwater drain, river, stream, lake, dam and riparian	N.			1



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vegetation?				
Implementation and Operation - Resources, Roles, Responsibility and Authority				
34.	Have environmental Roles and Responsibilities been assigned to relevant personnel? One (1) person to be appointed per team?	Y. Westford & Polanco.	Polanco to send appointment letters.	5
Communication				
35.	Has the Environmental Emergency Preparedness and Response (EEMR) procedure (WPC020) being communicated to everyone on site?	Y. During EMP training.		1
36.	Have the non-conformance report (NCR), Incidents and any other deviations being communicated to the project team?	Y.		1
37.	Has the contractor conducted weekly environmental awareness/toolbox sessions? Keep a signed attendance register.	Y. Part of risk assessment.		1
38.	Have the relevant aspects of the Eskom procedures and instruction been communicated?	Y. During EMP training.		1
Documentation - Control of Documents				
39.	Are there Eskom Procedures on file	Could not verify as		1

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	such as Waste Standards, Bush Clearing procedure and Oil Spill Instruction etc.?	Site office was locked.		
<b>Environmental Emergency Preparedness and Response procedure (EPR)</b>				
40.	Are the emergency numbers available and up-to-date to all construction personnel?	Y. Display on site access board @ office.		1
41.	Is there an Environmental Emergency preparedness Procedure to deal with environment-related incidents (e.g. fires, oil spillages, snakes bites, bee stings etc.? Eskom EPR procedure to be available and displayed on site.	Y.		1
<b>Checking - Non Conformity and Corrective Action Plan</b>				
42.	Has there been any deviation from the requirements of EA-EMP, Permit, License, ROD and any other conditions or agreement?	Y. No drip trays. Plant are not leaking any oil.		0
43.	If any deviations, have they been reported to Environmental Officer/Clerk of Works/Project Coordinator/Site Manager within 24 Hours e.g. oil & diesel spillages etc.	N/A. No oil spills occurred due to not having drip trays.		N/A
44.	Have the action plans been developed			





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	and incidents addressed adequately? Shall not exceed more than 24 Hours depending on the incident or action?			
45.	Have all the Non Conformances Reports been addressed and closed e.g. complaints, incidents, pollution etc? If applicable	N		0
<b>Control of Records</b>				
46.	Does the site have Environmental File with EA_EMP and Training records, Incidents Flash Reports, Permits, Licences, ROD, Waste Manifest, Letter of consent, NCR, Inventory of Incidents, Complaints Register, Action Plans and Audit Reports? To be produced when required at all times.	N. could not verify if it is on site as the office is locked.		1
<b>Internal Audits</b>				
47.	Has the contractor performed a self-audit and addressed all deviations? At least one or more in two weeks?	could not verify.		—

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PROJECT DETAILS

Name of the Project : Powerline or Substation	Vyelele SS	Name of the Auditor	Madré Hendriks
Name of the Construction Representative	Shane Lang	Date	24 June 2015
Signature		Signature	<i>Madré Hendriks</i>

COMPLIANCE STATUS

Number of Compliance	32.5
Number of Non-Conformance	3.5
Compliance Rating:	
Compliant	
Risk of non-compliant	X
Non-Compliant	
Percentage Compliance Score	$\frac{32.5}{36} = 90.3\%$

- \* Evidence on site. Strapping cables to steelwork.
- \* OptiPower is starting stringing gear on site. Includes drip trays.
- \* No drip trays under westland Civils plant (grader, roller & digger/loader)
- \* Westland Civils not on site.