

 energy Department of Energy REPUBLIC OF SOUTH AFRICA	Municipality:	KAREEBERG			
	Municipality No:	NC074			
	Month:	December 2017			
	Upgrade of network in Carnarvon-dorp				
Project name					
Project type	Substation		Line		
	Size/Capacity (MVA)		Length (km)		
	New		New		
Project category	Upgrade		Upgrade	X	
	Refurbishment		Refurbishment		
	Start date	28-Jan-18	Target Finish date	28-Feb-18	
Project Duration					
	Approved Budget	Transferred Capital	Actual Capital Expenditure		% Variance
	R 1 000 000,00	R -	R	7 934,40	-7934%

Actual Capital Expenditure % (Month) **#DIV/0!**

Actual Capital Expenditure % (YTD) **-12%**

Main Project stages	Overall status	Milestones	Project Plan	Actual Status in %
Planning, Design and Procurement	67%	Pre Engineering	15-Sep-17	100%
		Design	20-Oct-17	100%
		Procurement	30-Nov-17	0%

Progress status in detail:
Project was advertised and tenders closed on the 4th of December 2017. Busy with the evaluation of tenders

SUBSTATION	#DIV/0!	Civil Works		
		Steel Work		
		Primary stage		
		Secondary Stage		

LINE	0%	Trenching		
		Poles	20-Jan-18	0%
		Stringing	20-Jan-18	

OVERALL PROJECT STATUS	50%	Commissioning		
		Close-up		

Variance Explanation (Reporting Month)	Reasons for variance (where variance is not equal to zero)	Corrective action to be taken to bring the project back to schedule (action to be taken to address reasons for variance)
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Capital (Financial)				
Project Work (Technical)				

NB:	Please attach supporting documentation, invoices and bill of materials purchased			
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Annexure C

BULK INFRASTRUCTURE CHECKLIST				
1.Pre Engineering check list	Complete	Not complete	Not Applicable	% status
Environmental Impact Assessment (EIA)	√			
2.Design				
Preliminary designs and drawings	√			
Final designs and drawings	√			
3.Procurement				
Procurement of service providers		√		
Procurement of materials			√	
Delivery of materials			√	
4.CONSTRUCTION				
4.1. Civil Works stage				
Site preparation and surface levelling				
Installation of earth mat				
Construction of control room				
Cable trenches and foundations				
All foundation neatly finished				
Has Cable trenching been completed				
Cable trenches covers fitted				
Is Structure foundation completed				
Is transformer bay foundation completed				
Yard stone completed				
Is substation fence installed and earthed				
Gates lockable				
Is Fire protection and oil drainage completed				
Is Fire extinguishers installed				
Is warning signs and notices installed				
4.2. Steelwork stage				
Is all Steelwork structure complete				
Is all Steel structures leveled and straight				
Beams correctly installed				
Steelwork correctly assembled				
Is all steel structures galvanized				
Is substation equipment grounded: Steel structure				
4.3. Primary plant Stage				
Is power transformers installation complete				
Is auxiliary transformer installation complete				
Is current transformers installation complete				
Is circuit breakers installation complete				
Is voltage transformers installation complete				
Is airbreak switches installation complete				
Is Isolators / Earthswitches installation complete				
Is Busbars installation complete				
Is Insulators installation complete				
Is substation equipment grounded :Transformers				
Is metal-clad switchgear installation complete				
Is substation equipment grounded: Metal-clad Switchgear				
Is installation of high voltage cables completed				

4.4.Secondary plant stage				
Is Panels installed				
Is secondary wiring from primary plant to feeder panels installed				
Is panel wiring and cable check completed				
Is protection relays installed				
Is metering meters installed				
Is Battery charger installed				
Telecontrol (SCADA) equipment installed				
4.4. Poles				
Is excavations for poles pit completed				
Is planting of poles completed				
Is numbering of poles completed				
4.5. Stringers and Droppers stage				
Is overheadlines installed on a registered servitude				
Is Stringing of lines and droppers completed				
Is sag and tension of line correct				
Is tension of droppers correct				
Is all electrical clearance correct				
Is ground clearance according to specification				
Bird diverters or protection installed				
Aircraft warning installed				
5. Commissioning stage				
Have all lights, plugs inspected and tested certificate of compliance issued				
Has power transformers been tested				
Has Circuit breakers been tested				
Voltage transformers been tested				
Current transformers been tested				
Has the High Voltage cable been tested				
Auto reclosers been tested				
Isolators/Earthswitches been tested				
Metal-clad switchgear been tested				
Has protection settings correctly applied to relays				
Protection relays been tested				
Has programmable meters been programmed accordingly				
Metering equipment been tested and calibrated				
Telecontrol (SCADA) been tested				
Battery charger been tested				
Is phasing been completed				
All feeders correctly labeled				
Has substation drawings updated before make alive				
Has handover certificates, commissioning documents for service been done				
Has substation made alive been done				
Comment:				

