

2017/18 Bulk Infrastructure Monthly Report

Municipality:	KAREEBERG
Municipality No:	NC074
Month:	March 2018
Project name	Upgrade of network in Carnarvon-dorp
Project type	Substation
Size/Capacity (MVA)	Line
Project category	New
Project Duration	Upgrade
	Refurbishment
	Target Finish date
	28-Jan-18
	Month
	31-May-18
Approved Budget	Transferred Capital
R 1 000 000,00	R 1 000 000,00
	Actual Capital Expenditure
	R 6 156,00
	% Variance
	993844%

Please tick relevant cells

BULK INFRASTRUCTURE - Annexure C

Contact Person	A van Schalkwyk
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Transferred Capital	Actual Capital Expenditure	% Variance
R 1 000 000,00	R 137 999,18	862001%

Actual Capital Expenditure % (YTD)

Actual Capital Expenditure % (Month)

1%

14%

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

Project was advertised and tenders closed on the 4th of December 2017. Busy with the evaluation of tenders

SUBSTATION	Civil Works
Construction/Execution	Steel Work
	Primary stage
	Secondary stage

LINE	Trenching
Construction/Execution	Poles
	Stringing
	20-Feb-18
	20-Feb-18

OVERALL PROJECT STATUS	Commissioning
	Close-up
	50%

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

Capital (Financial)	
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Project Work (Technical)	
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NB: Please attach supporting documentation, invoices and bill of materials purchased

Annexure C

BULK INFRASTRUCTURE CHECKLIST				
1.Pre Engineering check list	Complete	Not complete	Not Applicable	% status
Environmental Impact Assessment (EIA)	v			
2.Design				
Preliminary designs and drawings	v			
Final designs and drawings	v			
3.Procurement				
Procurement of service providers		v		
Procurement of materials			v	
Delivery of materials			v	
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/Earthsitches 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:				

