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ATTACHMENTS

VRESAP

Vaal River Eastern Sub-System Augmentation Project (VRESAP)

Project description:

Construction of a raw water conveyance system of an abstraction system, storage reservoir, a high lift pump station, a 121 km pipeline, surge tank and diversion structure.

Status:

Approved as a Government Waterworks.

Province: Mpumalanga

Jobs impact:

• Direct project construction jobs: 1 600

Projected cost to completion:

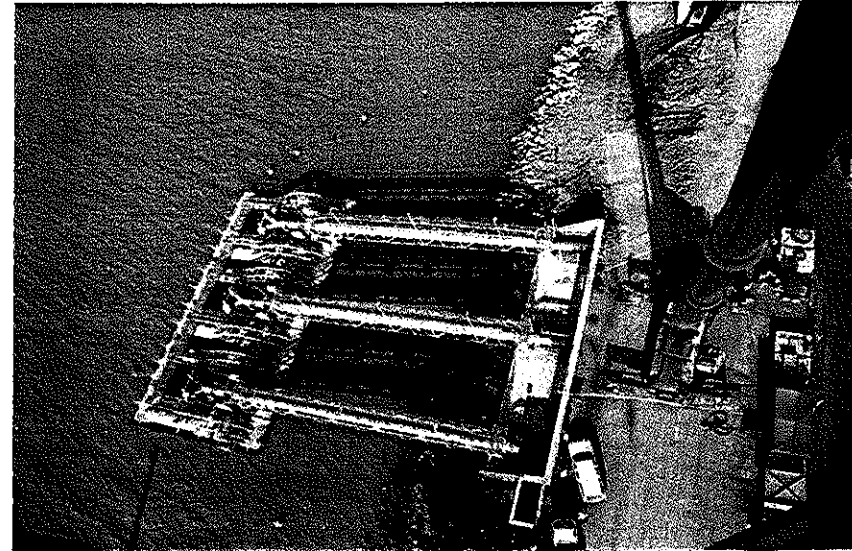
R2,698 billion

Project Scope:

- Construction of an abstraction works.
- Construction of a storage reservoir.
- Construction of a high lift pump station.
- Construction of a surge tank and a diversion structure.
- TCTA to obtain off budget funding (100% commercial)

Project schedule:

• Forecast project close out: July 2012



Expenditure:

- Project 99% complete (permanent abstraction works not complete)
- Earning revenue from June 2009
- **Progress & Challenges:**
- Abstraction works to be completed by May 2012.
- Challenges experience with the coffer dam demolition.
- Potential legal action by contractor (C-MC) due to premature contract termination for poor performance.
- DWA O&M staff challenges

KWSAP

Komati Water System Augmentation Project (Off-budget)

Project description:

Construction of a pumping station and two pipelines to provide water to Duvha and Matla Power Stations.

Status: Approved as Government Waterwork.

Province: Mpumalanga

Jobs impact:

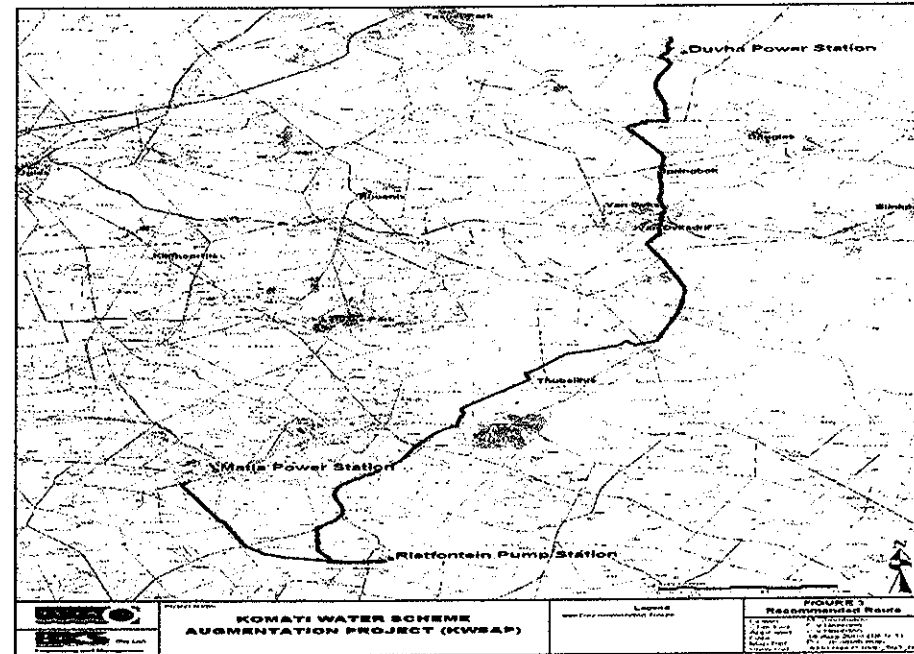
•Direct project construction jobs: 800

Projected cost to completion:

R1,736 billion

Project Scope:

- Construction of a pumping station at Rietfontein Weir.
- Construction of a 58,4 km , 1,1m diameter pipeline to Duvha Power station
- Construction of a 12,9 km , 600mm diameter pipeline to Matla Power station.
- TCTA to obtain off budget funding (100%)



Project schedule:

- Construction commenced in January 2011
- Forecast project close out in October 2013

Progress & Challenges:

- Water supply long term funding for the project had been secured.
- Delays in pipe manufacturing solved
- 17,5 km pipes laid
- No significant challenges reported

MMTS-2

Mooi Mgeni Transfer Scheme – Phase 2

Project description:

Construction of the 42 m high Spring Grove Dam, the associated transfer system and the refurbishment of existing MMTS-1 pumping station and transfer system.

Status: Approved as Government Waterwork.

Province: KwaZulu Natal

Jobs impact:

- Direct project construction jobs: 850
- Jobs due to growth: 800

Projected cost to completion: R1,67billion

Project Scope:

- Refurbishment of existing MMTS-1 pipeline system.
- MMTS-2A: Construction of the 42 m high Spring Grove Dam.
- MMTS-2B: Construction of a transfer system.
- Acquisition of off budget funding by the TCTA (100%).

Project schedule:

- Construction Commenced during Feb 2011
- Forecast Project Closure Jan 2015

Progress/Issues:

- The sod turning event was held on the 16th May 2011.



- Municipal off-take Agreements between Umgeni Water (UW) and eThekweni, uMgungundlovu and Msunduzi Municipalities were signed

Progress & Challenges:

- Construction contract was awarded to Group Five and Pandev JV.
- Stage 1 River Diversion works are completed.
- Excavation completed
- EMPR restricts transport to 30 heavy duty trucks per day hindering supply of construction materials, revision imminent
- Environmental authorisation of pipeline route contested and **upheld resulting in reassessment of environmental impact assessment, due to start during February 2012**

MCWAP-1

Mokolo and Crocodile River (West) Water Augmentation Project Phase 1 (MCWAP-1)

Project description:

Construction of a pumping station and 46 km of pipeline, with a diameter of 1m to deliver bulk raw water from the Mokolo Dam to Medupi and Matimba Power stations, Exxaro and for the expected growth in the Lephalale Municipality. The existing pipeline will be refurbished following commissioning of the new works.

Status:

Approved as Government Waterwork.

Province:

Limpopo

Jobs impact:

•Direct project construction jobs: 1 600

Projected cost to completion:

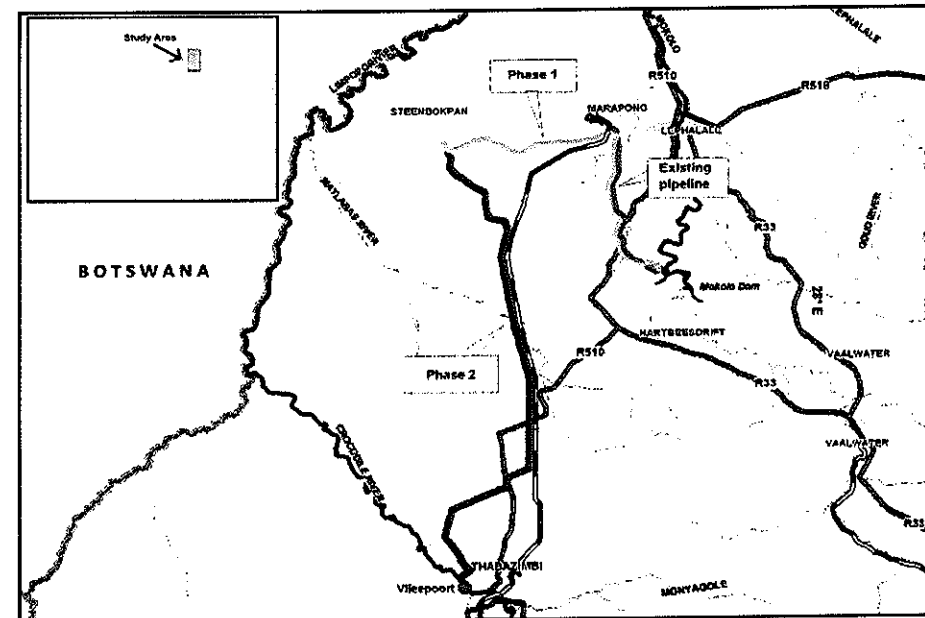
R2,138 billion

Project Scope:

- Construction of a pumping station.
- Construction of a 46 km , 1m diameter pipeline.
- Refurbishment of existing pipeline
- TCTA to obtain off budget funding (75% commercial)

Project schedule:

- First delivery of water at the end of 2013
- Forecast project close out: August 2015



Progress & Challenges:

- Project advanced to detail design and construction phase.
- Water supply agreements concluded between Eskom, Exxaro and DWA..
- DWA-TCTA Implementation Agreement concluded December 2011.
- Fitch rating AA+ achieved
- Contract awarded in June 2011.
- Site handed over to contractor on 14 Sept 2011 and physical activities started during November 2011
- Environmental baseline studies ongoing
- No significant challenges at this stage.

ORWRDP-BDS

Olifants River Water Resources Development Project – Phase 2 Bulk Distribution System

Project description:

The construction of the bulk distribution system which will transfer water from the De Hoop and Flag Boshielo Dams to domestic and industrial users in the middle Olifants River catchment area.

Status: Approved as Government Waterwork.

Province: Limpopo

Jobs impact:

- Direct project construction jobs: 2 000 jobs for the BDS
- Jobs due to new irrigation and industrialisation and growth: 5 000

Projected cost to completion:

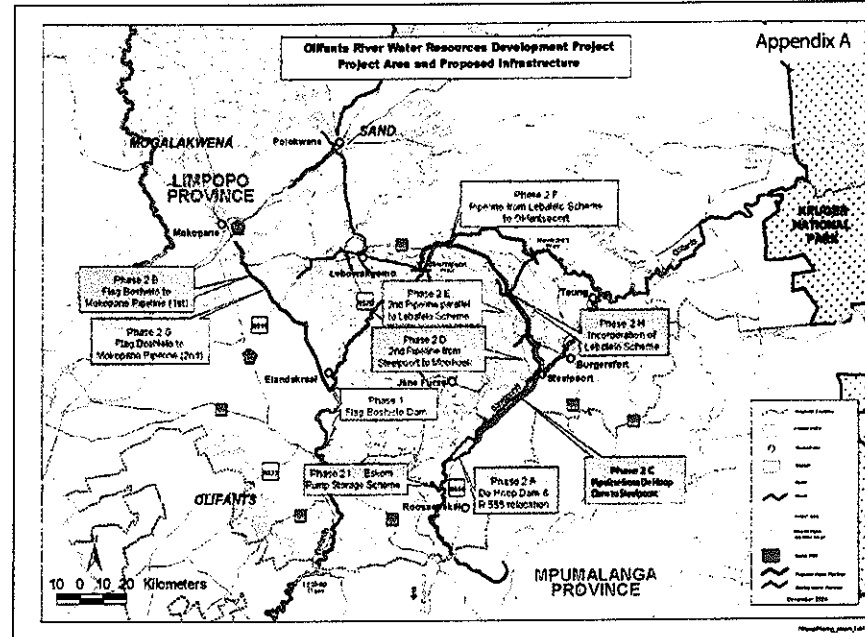
- Phase 2B-H (Distribution): R12,975bn
- Phase 2C (in progress): R2,100bn

Project Scope:

• Construction of the Bulk Distribution system that will convey raw water from the De Hoop and Flag Boshielo Dams to domestic and industrial users.

Project schedule:

- Construction of 2C commenced, completion by March 2014. TCTA directed to implement Phase 2C
- Phased completion following implementation of water reconciliation study and funding availability



Progress:

- Detail design 90% complete
- Revised Directive issued to TCTA

Challenges:

- One year loss on BDS due to licensing, affordability by Municipalities and suspensive clauses of the mines.
- The project implementation to be redirected towards developmental approach advocated by the President
- Facilitation process to be undertaken to unlock deadlock with between the stakeholders within the Olifants river catchment area and the DWA Project team.

LHWP PH2

Lesotho Highlands Water Projects Phase 2 (Bi-national Project)

Project Description:

Polihali Dam will be a rockfill dam. It will link up with Katse Dam through the 38.2km tunnel. The infrastructure includes roads, powerlines, telecommunications; residential areas, labour camps and replacement housing for resettles

Status: Approved as Government waterworks

Country: Lesotho

Jobs impact:

•Direct project construction jobs in Lesotho: 1000

Projected cost to completion:

R7,834.80 billion

Project Scope:

•Construction of Polihali Dam

•163.5m high rockfill dam

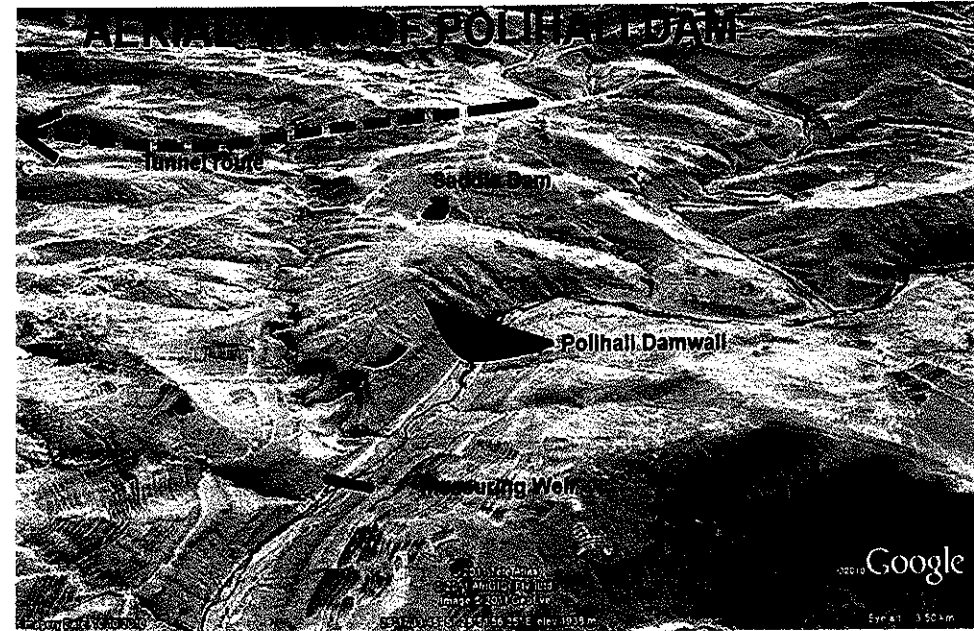
•49.5m Saddle dam

Transfer Tunnel

•38.2 km long

•5.2m diameter

•TCTA to obtain off budget funding (100%)



Project schedule:

- Infrastructure Feb 2015 - Dec 2016
- Dam and Tunnel Nov. 2016 – Dec 2018
- Impoundment of the Dam August 2019
- Water Delivery to RSA August 2020

Progress & Challenges:

- RSA Parliament to ratify the LHWP Phase II Agreement
- TCTA to obtain off budget funding
- No significant challenges reported

LHWP PHASE II
MASTER PROGRAM

		Date
1	Governments sign Phase II Agreement	mid Aug '11
2	RSA Parliament ratifies Agreement	June '12
3	Project Management Unit start work	July '12
5	Environmental & Social studies & plans	Jan '11 – Dec '20
6	Designs & Issue construction tenders	Dec'12 to June '15
	<u>Construction</u>	
7.1	Infrastructure	Feb '15 - Dec '16
7.2	Dam & Tunnel	Nov 16' - Oct '20
7.3	Start Impound to 2000 masl	Aug '19
7.4	Pumpstorage	Aug 13' - Dec '18
8	Water Delivery	Dec 2020

De Hoop Dam

Olifants River Water Resources Development Project – Phase 2A (De Hoop Dam)

Project description:

Construction of the 80 m high De Hoop Dam and related infrastructure - to supply water to domestic and industrial users in the middle Olifants river catchment area.

Status: Approved as Government Water Work.

Province: Limpopo

Jobs impact:

- Direct project construction jobs (peak):
 - 1150 : De Hoop Dam
 - 528 : Road re-alignment
 - 250 : Housing infrastructure
- Jobs due to new industrialisation and growth: ±5000

Projected cost to completion:

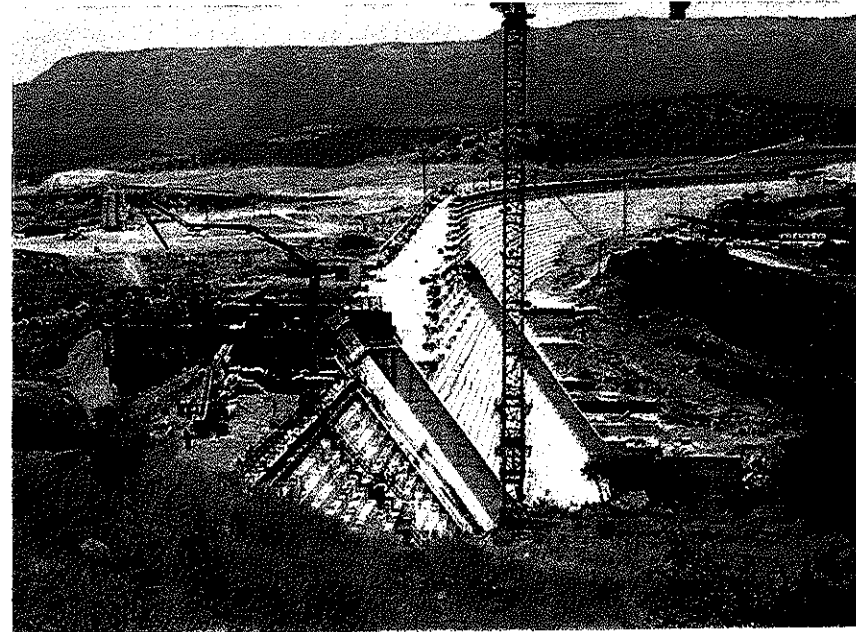
- Phase 2A (Dam): R3.1bn

Project Scope:

- Construction of the De Hoop Dam.
- Re-alignment of 20 km portion of P169-1.
- Housing infrastructure

Project schedule:

- Construction started: June 2007
- Construction Completion: March 2013



Progress/Challenges

- Impoundment delayed to August 2012
- Green Scorpion's allegations of non-compliance

Connected issues:

- Sediment from upstream open cast mining causing pollution and reduced dam storage capacity
- Community distress if primary water is not supplied
- The section 19 pollution remediation directive has been issued.

Olifants River Water Resources Development Project – Phase 2 Bulk Distribution System

Project description:

The construction of the bulk distribution system which will transfer water from the De Hoop and Flag Boshielo Dams to domestic and industrial users in the middle Olifants River catchment area.

Status: Approved as Government Waterwork.

Province: Limpopo

Jobs impact:

- Direct project construction jobs: 2 000 jobs for the BDS
- Jobs due to new irrigation and industrialisation and growth: 5 000

Projected cost to completion:

Phase 2B-H (Distribution): R12,975bn

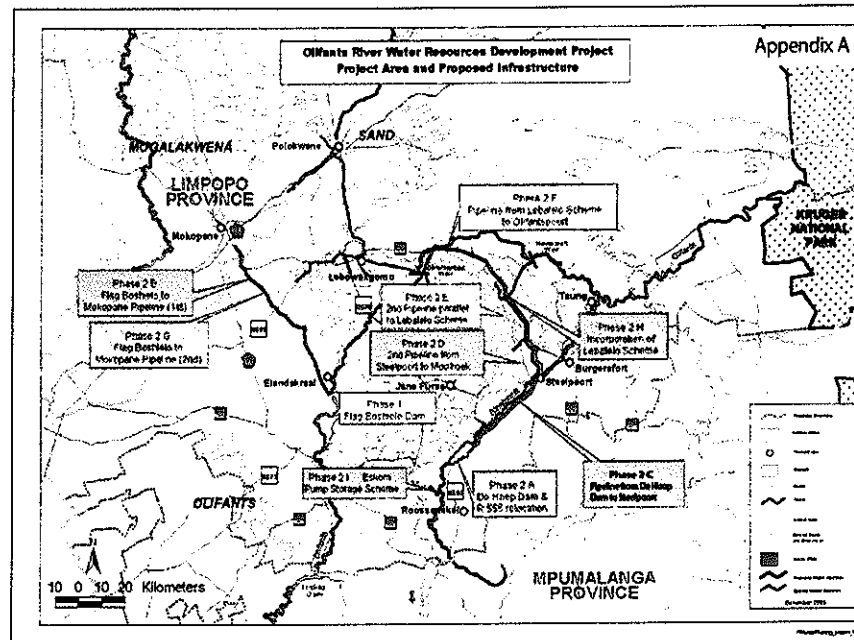
- Phase 2C (in progress): R2,100bn

Project Scope:

Construction of the bulk distribution system to convey raw water from the De Hoop and Flag Boshielo Dams to domestic and industrial users.

Project schedule:

- Construction of 2C commenced, completion by March 2014. TCTA directed to implement Phase 2C
- Phased completion following implementation of water reconciliation study and funding availability



Progress:

- Detail design is 90% complete
- Revised directive issued to TCTA

Challenges:

- One year loss on BDS due to licensing, affordability by municipalities and suspensive clauses of the mines.
- Review process to be facilitated between role-players to ensure most cost –efficient and effective implementation model.

CURRENT STATUS

- Minister has issued a revised directive for the implementation of ORWRDP sub-phase 2C to proceed using funds from the fiscus.
- The construction of the bulk distribution system (2C) commenced in February 2012.
- A review process will be facilitated between key role-players to ensure that the most cost –efficient and effective implementation model is used for the construction of the further sub –phases.

NANDONI PIPELINE

Luvuvhu River Government Water Scheme: Nandoni Steel Pipelines

Project description:

Construction of new pipelines to complete Nandoni bulk distribution system and to replace problematic GRP pipelines, including the Valdezia Pipeline

Status:

Updated water demand figures are significantly higher than previous (2003) estimates and larger pipe diameters are required than previously planned. The engineering design has been completed with the optimising of diameters for the pipelines.

The first contractor has been appointed and work has commenced for the construction of the Lukalo-Lambani, NN20B and NR6 pipeline.

Province: Limpopo

Jobs impact: 300 jobs

Projected cost to completion:

R750,1 million

Project Scope:

This project includes new steel pipelines for Xikundu Distribution Scheme and Nandoni Distribution Scheme

Project schedule:

The Lukalo-Lambani, NN20B and NR6 bulk lines to the north of Nandoni Dam and Xikundu Weir respectively will be completed by end of October 2012.

The construction of the Vuwani bulk pipeline has been split into three contracts. The contractors should be established on site by June 2012 and work completed by April 2013.

The Valdezia bulk pipeline, is being constructed by DWA Construction: North and will be completed by March 2013.

Progress/Challenges

Updated water demand figures are significantly higher than previous (2003) estimates and larger pipe diameters

are required than previously planned. The design has been completed with the optimised diameters for the pipelines.

Connected issues:

Local Water distribution Infrastructure to be implemented by Local Authorities

Motivation for the project

Completion of the Nandoni Bulk Distribution System pipeline as per the Luvuvhu Government Water Scheme White Paper of 1998

Recovery Of Loses By The Department

- The litigation process is being undertaken to address losses incurred by the Department
- The office of the State Attorney issued a summons against the pipe suppliers on 5 May 2010
- The DWA is undertaking a due diligence to ascertain whether losses can be recovered
- Parties must hold a pre-trial conference in terms of the rules.
- The Department is considering whether money can be recovered from the professional indemnity insurance.

INYAKA

Sabie River Government Water Scheme: Inyaka Water Treatment Works Phases 3&4

Project description:

Construction of two new 25 MI/d modules at the Inyaka WTW and associated works to bring the total capacity up to 100MI/d

Status:

The civil works is being done by DWA Construction West and is about 89% complete. The mechanical and electrical contractor (Metsi Projects) has been appointed. The engineering designs have been completed.

The contractor for the new raw water pipeline has been appointed (Cerimele Babedi JV) and construction of the duplicate 700 mm steel pipe is in process.

Province: Mpumalanga

Jobs impact (15 Feb 2012):

Civil contract: Total = 287, Male = 220, Female = 67, Local = 253, Youth = 90 and Disabled = 1.

Projected cost to completion:

R427m (all inclusive)

Project Scope:

This project includes two new 25 MI/d water treatment modules and one additional 700mm raw water pipe from the Inyaka Dam plus all associated mechanical, electrical and electronic equipment.

Project schedule:

The pipeline will be completed by October 2012 and the rest of the plant by June 2013. The mechanical contractor has undertaken to accelerate the project to attempt an earlier completion and commissioning date. The delivery of the raw water pumps is a long lead activity that will determine the completion date. The main civil aspects of the project with all major structures are at an advanced stage.

Progress/Challenges

The project is on schedule

Connected issues:

Local water distribution Infrastructure is to be implemented by the Bushbuck Ridge Local Municipality.

Motivation for the project

The Bushbuck Ridge population is rising steadily and additional potable water is urgently required. The repair of the Acornhoek GRP pipe and various other soon to be commissioned bulk pipes will place a demand on the plant that will exceed current capacity. The new modules must be commissioned as soon as possible to address this.

Dwarsloop- Acornhoek Pipeline

Project description:

The Sabie River Government Water Scheme (GWS): Dwarsloop-Acornhoek bulk water pipeline is the pipeline which connects the Inyaka Water Treatment Works from the Dwarsloop Village up to the Acornhoek Command Reservoir, i.e. approximately 23 km of pipeline. The construction of new steel bulk pipeline is required to complete this bulk distribution system and to replace problematic GRP pipeline.

Province: Mpumalanga (Acornhoek)

Jobs impact: Approximately 160 construction jobs will be created

Projected cost to completion:

Dwarsloop-Acornhoek Pipeline :R130 million

Project Scope: Dwarsloop-Acornhoek Pipeline

Project schedule: Completion December 2012



Progress:

The project is 35% to completion stage

Challenges:

The project is 36 working days behind program due to:

- Excessive ground water conditions on the 400 mm diameter pipeline.
- Stoppage by community due to employment issues.
- Unforeseen leakages on existing pipelines connecting up to Acornhoek bulk pipe lines that had to be fixed.

Recovery Of Loses By The Department

- The litigation process is being undertaken to address losses incurred by the Department
- The office of the State Attorney issued a summons against the pipe suppliers on 5 May 2010
- The DWA is undertaking a due diligence to ascertain whether losses can be recovered
- Parties must hold a pre-trial conference in terms of the rules.
- The Department is considering whether money can be recovered from the professional indemnity insurance.

