

Regional Chief Director: Northern Cape

**Attention: Mr A Abrahams**

Department of Water Affairs

Private Bag X 6101

KIMBERLEY

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Email: [abrahamsa@dwa.gov.za](mailto:abrahamsa@dwa.gov.za)

14 September 2014

Dear Mr Abrahams,

**Paulputs Tower Project: Written Non-binding Confirmation of Water Availability for REIPPPP Bidding Round 2016/7 for a 150MW Solar Thermal Electric Molten Salt Tower Plant close to Pofadder**

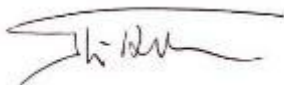
We are developing a 150MW STE MST plant for the 2016/7 bidding round of the DOE REIPPPP located next to our existing KaXu and XiNa plants on the Abengoa land Scuitklip 92-4 close to Pofadder. This facility will comprise our latest technology advances with efficiency increases and optimised for despatchability during the evening peak with dry cooling. We are anticipating 400 000 cubes annual raw water consumption, to be sourced from the Gariep (Orange), river at an abstraction point to be established close to Onseepkans. Discard water will again be discharged to appropriately lined evaporation ponds, thus operating the plant on a zero effluent discharge basis. The anticipated water use will comprise the following:

Water use	Cubes per annum
Raw water abstraction	(400 000)
Mirror washing	80 000
Boiler make-up	80 000
Evaporation/drift losses	100 000
Potable/other	10 000
Discard to ponds	130 000

Construction water use is estimated at 300 000 cubes per annum over 36 months.

Once again your favourable review in this matter is highly appreciated.

Yours sincerely,



Dr. Louis van Heerden

**Director**