



**Namibia Water Corporation Ltd**

## **NAMWATER ON HYBRID RENEWABLE ENERGY**

**WE ARE INAUGURATING THE GRÜNAU PILOT RURAL WATER  
DESALINATION PLANT POWERED BY HYBRID RENEWABLE  
ENERGY AND WILL COMMENCE CONSTRUCTING ANOTHER  
ONE AT BETHANIE IN THE !KARAS REGION**

The availability of water of suitable quality for the intended purpose is the primary limiting factor to development in Namibia. The exacerbation of water scarcity due to climate change has a significant impact on the country's socio-economic development leading to major implications on all other sectors. The water sector in Namibia is also faced with many challenges related to the affordability of water supply, specifically to rural communities.

As Namibia is a water-scarce country, water is recognized as a key national asset. As an arid country, Namibia depends heavily on its groundwater resources. However, in many areas the dissolved solids content of the water exceeds the approved threshold for human consumption.

Since water tariffs are directly linked to the cost of water supply, the costly approach of pumping water over long distances is not a feasible option for supplying small communities with good quality water. An alternative is to improve the quality of locally abstracted groundwater by applying treatment techniques, such as desalination. These in turn demand energy in the form of electricity, but many of the small communities are not coupled to the national electricity grid. In addition, electricity consumption is listed as constituting a large part of the unit cost of water production.

To address the above water supply challenges, NamWater is busy constructing Pilot Rural Groundwater Brackish Desalination Plants to be powered by Hybrid Renewable Energy (Solar and Wind). These will be the first rural pilot desalination plants in the country to be powered by hybrid renewable energy. The project aims to enhance Namibia's ability to adapt to the effect of climate change from a technological perspective and to address the negative social and health implications associated with the consumption of poor-quality groundwater among many rural communities. If found successfully, the technologies will be replicated in other small communities facing similar water quality challenges.

**Data and information will be collated to inform future water, energy strategies, and decision making. The project will address three objectives:**

**Objective 1:** Acquire knowledge and skills on how to effectively and efficiently desalinate poor quality groundwater on a small scale using Reverse Osmosis (RO) technology and hybrid renewable energy technology.

**Objective 2:** Positively impact the lives of vulnerable individuals and communities at the two project sites, by supplying good quality water, and raising awareness of the effects of climate change.

**Objective 3:** Communicate the acquired knowledge and skills to stakeholders in the water supply sector and thereby, promote the mainstreaming of such small-scale desalination technology and systems in the country.

In achieving the above objectives, ultimately the project aims at establishing how plant size affects aspects such as operation, management, maintenance requirements and the unit cost of water produced so as to incorporate lessons learnt into future planning and design of desalination plants in Namibia.

NamWater completed the construction of a Pilot Rural Brackish Water Desalination Plant powered by Hybrid Renewable Energy at Grünau in the ! Karas Region and due for inauguration by Honourable Calle Schlettwein, the Minister of Agriculture, Water and Land Reform on the 16th of October 2020. While inaugurating the Grünau plant, the Honourable Calle Schlettwein, the Minister of Agriculture, Water and Land Reform will also handover the site to the contractor at Bethanie, !Karas Region to commence with the construction of the Bethanie Pilot Rural Brackish Water Desalination Plant powered by Hybrid Renewable Energy.

The Grünau plant construction commenced in February 2020 at an estimated cost of N\$ 13.5 Million (Excl.VAT) and will be completed this month. The newly constructed plant is designed for a maximum raw water feed of 47.3 m3/day and a design operating capacity of 36.0 m3/day at a recovery rate of 85%.

The innovative project is funded by the Adaptation Fund, an agency located in the United States of America funding climate change adaptation projects. The project funds are been administered by Desert Research Foundation of Namibia as the National Implementing Entity and NamWater is the Executing Entity. The Ministry of Environment, Forestry and Tourism is the National Designated Authority for the Adaptation Fund.



ADAPTATION FUND

*P*rogramme



**CONTACT**  
**Namibia Water Corporation Ltd.**  
176 Iscor Street, Northern Industrial Area  
Windhoek, Namibia  
Tel: +264 61 71 0000  
Fax: +264 61 71 3000  
Website: [www.namwater.com.na](http://www.namwater.com.na)

**THE INAUGURATION OF THE  
NEW NAMWATER PILOT RURAL  
DESALINATION PLANT, GRÜNAU**



## THE INAUGURATION OF THE NEW NAMWATER PILOT RURAL DESALINATION PLANT

**Date:** Friday, 23 October 2020  
**Time:** 10H00-13H00  
**Venue:** Desalination Plant, Grünau, //Karas Region

---

### Arrival of guests

### Performance by cultural group

**Director of Ceremonies:** Mr. J. Shigwedha

National and Africa Union Anthems

**Welcoming remarks:** Hon. Aletha Frederick  
Governor of //Karas Region

**Project overview:** Mr. Abraham Nehemia  
CEO NamWater

**Message by Donor:** Dr Martin B Schneider  
Executive Director Desert Research Foundation of Namibia

**Message on Climate Finance:** Mr. Petrus Muteyauli  
Deputy Director for Multilateral Environmental  
Agreements MEFT

**Keynote address:** Hon. Calle Schlettwein  
Minister of Agriculture, Water and Land Reform

**Vote of thanks:** Mr. Thaddeus Maswahu  
Board Chairperson NamWater

Performance by cultural group

**Africa Union and National Anthems**

**Tour of the facility and photo opportunity**

**Refreshments**

## Santos Bennardo

---

**From:** Jona Musheko <Jona.Musheko@mawlr.gov.na>  
**Sent:** Wednesday, October 21, 2020 9:16 AM  
**To:** skluskowski@nepc.com.na; stjिताura@gmail.com; njimmy@nbc.na; natangwejimmy1@gmail.com; luqman@namibian.com.na  
**Cc:** Margaret S. Kalo; mushekoj@gmail.com; Jennifer Paulus; Santos Bennardo; Nandjungu Rachel  
**Subject:** Media Invitation Ministerial Visit South  
**Attachments:** Program.pdf

Dear Colleagues

As per our telephonic conversation this morning, kindly find attached the program with events starting from tomorrow (see attached the programme).

For more information and possible direction during this Ministerial visit, please contact our colleagues below:

**Ms Jennifer Paulus 0816600015 (MAWLR)**

**Mr B. Santos 0811277125 (NAMWATER)**

Kind regards

**Date: Thursday ,22 October 2020**

**Event: Site Handover: Construction of the NAMWATER Pilot Plant by Hon.Schlettwein**

**Time: 10H00-13H00**

**Place: Bethanie**

**Date: Friday,23 October 2020**

**Event: Inauguration of the new NAMWATER Pilot Rural Desalination Plant by Hon. Schlettwein**

**Time: 10h00**

**Place: Grunau**

Thank you.

Kind regards

## ***Jennifer Paulus***

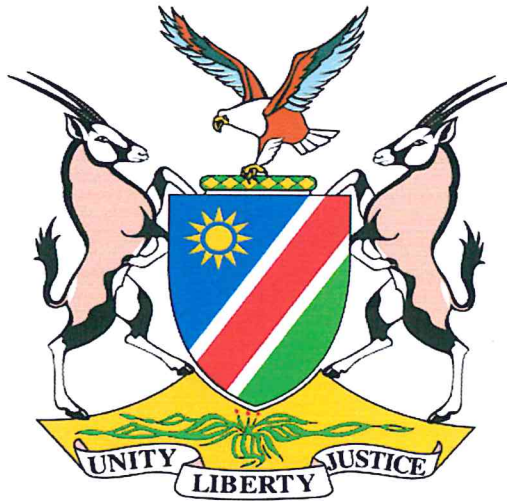
Planning, Research, Training and Information Services  
Ministry of Lands and Resettlement  
P/Bag 13343  
Windhoek  
Namibia

Tel: 061-296 5393

Email: [Jennifer.Paulus@mlr.gov.na](mailto:Jennifer.Paulus@mlr.gov.na)

---

This is an email disclaimer. you have received an email from a representative of Ministry of Lands Namibia.



# REPUBLIC OF NAMIBIA

OFFICE OF THE MINISTER OF AGRICULTURE, WATER AND LAND REFORM

## PROGRAMME

VISIT OF HON. CARL H.G. SCHLETTWEIN,  
MINISTER OF AGRICULTURE, WATER AND LAND REFORM  
TO  
HARDAP REGION AND THE KARAS REGION  
OCTOBER 21-31, 2020

### WEDNESDAY, October 21, 2020

@ 11h00: depart Windhoek for Keetmanshoop

Overnight @ Quiver Inn Guest House

@ 11h00: depart WINDHOEK for Keetmanshoop

@ 16h30: **Meeting with Governor & Councilors** (Karas Region) @ Keetmanshoop

@ 19h30: **Dinner**

### THURSDAY, October 22, 2020

@ 08h30: depart Keetmanshoop for Bethanie (about 140Km)

Overnight @ Quiver Inn Guest House

@ 10h00 -13h00: **Site Handover:** Construction of the NAMWATER Pilot Desalination Plant by **Hon. Schlettwein**

@ 15h30: **Visit Neckartal Dam** (Dam Wall, Pump Station & Balancing Dam) and the envisaged **Green Scheme** site

@ 17h30: return back from Neckartal Dam to Keetmanshoop to overnight @ Quiver Inn Guest House

@ 19h00: **Dinner** @ Quiver Inn Guest House

### FRIDAY, October 23, 2020

@ 08h30: depart Keetmanshoop for Grunau (about 170Km) Overnight @ Quiver Inn Guest House

@ 08h30: depart Keetmanshoop for Grunau

@ 10h00 -13h00: **Inauguration** of the new NAMWATER Pilot Rural Desalination Plant by **Hon. Schlettwein**

@ 19h00: **Dinner** @ Quiver Inn Guest House

**SATURDAY, October 24, 2020**

**To remain/lodging @ Keetmanshoop**

Overnight @ Quiver Inn Guest House

@ 11h30: **Visit Naute Dam and NDC Dates Farm**

@ 13h00: **Lunch**

@ 14h30: **Visit Gallop Oost Research Station**

**SUNDAY, October 25, 2020**

**@ 09h00 - depart Keetmanshoop for Aussencker Farm (Noordoewer) - Overnight @ Felix United**

**MONDAY, October 26, 2020**

**@ 08h30: depart for ORIP**

Overnight @ Felix United

@ 09h30: **Visit to Orange River Irrigation Project (ORIP) at Aussencker Farm**

@ 11h30: **Visit Gembok Irrigation Scheme (Grape Farm)**

@ 13h00: **Lunch**

@14H30: **Meeting with Farming Community**

**@ 16h30: depart Aussencker for Rosh Pinah**

Overnight @ N/A

**TUESDAY, October 27, 2020 @ (ROSH PINAH)**

@ 08h30: **Visit Water Projects**

@ 10h00: **Meeting - Information sharing on the Flexible Land Tenure System**  
(to be joined by representatives from Oranjemund)

**@ 15h00: depart Rosh Pinah for Keetmanshoop**

Overnight @ Quiver Inn Guest House

**WEDNESDAY, October 28, 2020**

**@ 08h30: depart Keetmanshoop for Aroab & Koes** - Overnight @ Quiver Inn Guest House

**@ 10h00: Handover of a Farms to Aroab and Koes Cooperative at Gellab Ost Research Station**

**@ 12h00: Meeting Resettlement Committee at Gellab Ost Researc Station**

**@ 14h00-15h00 Meeting //Kharas Communal Land Board**

**@ 15h00-16h00: Meeting //Kharas Regional Council-Information sharing on the Flexible Land Tenure System// Aussencker Farm (Noordoewer).**

**THURSDAY, October 29, 2020 (Mariental, Hardap Region)**

**@ 07h30: depart Keetmanshoop for Mariental -** Overnight @ Mariental Boutique Guest House

**@ 11h00: Meeting with Governor & Councilors (Hardap Region)**

**@ 13h00: Lunch**

**@ 15h00: Meeting with Hardap Communal Land Board**

**@ 16h30: Visit Kalahari Research Station**

**FRIDAY, October 30, 2020**

**@ 08h30: Visit Hardap Dam and the Hardap Irrigation Scheme**

**@ 11h00: Visit Nam Dairies Operations**

**@ 13h30: depart Mariental for Stampriet**

Overnight @ N/A

**@ 15h00: Visit Stampriet Irrigation Scheme**

**@ 17h00: depart Stampriet for Aranos**

Overnight @ Ley-Lia Guest House

**SATURDAY, October 31, 2020**

**@ 08h30:** Meeting with Farming Community (Aranos/Stampriet district)

**@ 12h00:** depart Aranos for WINDHOEK

Overnight @ N/A

**@ 13h00** Return home - **WINDHOEK**