

Main Dam Construction Completed in Tanzania's Nyerere Hydropower

The Arab Contractors and ELSEWEDY ELECTRIC Commence Preparations for the Reservoir First Fill

DAR ES SALAM, TANZANIA, October 10, 2022 /EINPresswire.com/ -- • 1.45 million cubic meters of Roller-Compacted Concrete (RCC) have been used in the construction of the main dam.

- 158,000 square kilometer reservoir filling preparations have commenced.
- 22 million manhours by 2,500 workers for the construction of the main dam.

The joint venture of THE ARAB CONTRACTORS (Osman Ahmed Osman & Co) and ELSEWEDY ELECTRIC celebrated on the 6th of October 2022 the pouring of the last batch of roller-compacted concrete (RCC) of the main dam of Julius Nyerere Hydropower Project (JNHPP). Construction of the main dam lasted 687 days since the Rufiji River was diverted on the 18th of November 2020.



Completion of the main dam construction triggered a two-month preparation phase for the impounding of Rufiji River's water behind the dam. The preparations include the installation of giant gates and orifices on 3 different levels in the main dam in order to guarantee and maintain the necessary flow of the River to preserve the ecological integrity of the River downstream, and to discharge excess water caused by extraordinary floods during the dam's operation. Afterward, a critical engineering process will take place to close and plug the diversion tunnel heralding the start of the reservoir filling that extends 158,000 square kilometers upstream of the main dam

with an operational capacity of 32.7 billion cubic meters and a maximum design capacity of 34 billion cubic meters.

The main dam reaches a height of 190 meters above sea level and is resting on a 20,000 square meter foundation (approx.) with a length of 1,033 meters; this achievement of master engineering required the casting of a 1.45 million cubic meters of roller-compacted concrete (RCC) along with

320,000 cubic meters of conventional vibrated concrete (CVC) with a daily rate up to 8,000 cubic meters with the dedication of 2,500 workers spending 22 million manhours.



Despite challenges, the Project progresses towards the completion of the installation, testing, and commissioning of the nine (9) hydropower turbines starting in 2023 realizing Tanzania's dream since the 1960s. The Project serves Tanzania's sustainability goals as it should double TANESCO's grid capacity while controlling floods and providing all-year-round irrigation and fishing.

The joint venture of THE ARAB CONTRACTORS (Osman Ahmed Osman & Co) and ELSEWEDY ELECTRIC (EGX: SWDY.CA), was awarded the Project in an international competitive tender by the government of the United Republic of Tanzania for the Tanzania Electric Supply Company (TANESCO) for the construction of the 2,115 megawatts Julius Nyerere Hydropower project (JNHPP) at Stiegler's Gorge along the Rufiji river under EPC contract modality including installations, testing, and commissioning. The joint venture bid was the best bid technically and commercially. Therefore the Project USD 2.9 million EPC contract was signed on 12.12.2018 in Dar es Salaam, witnessed by the Ex-President of Tanzania and his Vice President (H.E. President\ Samia Hassan) and the Prime Minister of EGYPT.

About ELSEWEDY ELECTRIC

Esewedy Electric (EGX: SWDY.CA) is a leader in integrated infrastructure solutions, focused on delivering turnkey projects on a fast-track basis. For over 80 years, Elsewedy Electric has been committed to sustainable solutions that create opportunities, support communities & strengthen economies. Across Africa, Middle East & Asia, the company operates in 5 business lines: wire, cable, & accessories, electrical products, engineering & construction, digital solutions, and infrastructure investments. Elsewedy Electric employs 17,000 people, operating in 48 international offices and 31 production facilities, exporting to over 110 countries worldwide. Headquartered in Egypt, Elsewedy Electric announced revenue of USD 3.8 billion in December 2021.

News about Elsewedy Electric is available on www.elsewedyelectric.com

Amira Azmi

Elsewedy Electric

[email us here](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/595110924>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2022 Newsmatics Inc. All Right Reserved.