



Lower Kihansi HPP

Engineering Services and Construction Supervision



Kihansi Dam | Photo: NORPLAN

The Kihansi hydropower project is located 600 km south-west of Dar Es Salaam in Kilembero district close to Selous National Park. Run of river project with small reservoir for 24 hour peaking, installation prepared for 300 MW, initially installed capacity 180 MW, annual average 800 GWh. Unlined 600 m vertical shaft and 2,2 km pressure tunnel for 850 m head, A=30 m².

Underground powerhouse with transformer gallery, access/cable and tailrace tunnels of 2,2 km each. Extensive socio-economic studies with programs following in health, education, water and land use, small scale entrepreneurship, environmental (flora/fauna/aquatic/) and pollution monitoring. Separate contract for infrastructure; 42 km road/6 MW diesel station/40 km 33 kV, permanent camp with water and sewage.

PROJECT

Lower KiHansi Hydro-power project

PROJECT TYPE

Construction of large hydropower, high head, underground

LOCATION

Tanzania

CLIENT

Tanesco

TIME PERIOD

1992 - 2002

KEY NUMBERS

Capacity: 300 MW | Head: 850m

SCOPE OF WORK

Norplan on behalf of Multiconsult carried out all phases of the Kihansi HPP development. From feasibility study including ESIA, to preparation of tender document, detailed design and construction supervision.

OUR SERVICES

- Feasibility Study
- Tender Documents
- Contracting
- Detailed design
- Construction supervision
- Contract Management
- Socioeconomic and Environmental studies and monitoring
- Commissioning and power station operation for 1 year

DISCIPLINES

- Hydrology
- Civil Engineering
- Geology/Soil Mechanics
- Electrical Engineering
- Mechanical Engineering
- HVAC
- Transmission
- Architecture/Landscaping
- Socioeconomic/Health/Education
- Biology/Aquatic
- Water Resources and Land use



Power Station Cavern | Photo: NORPLAN



Top: Tailrace canal | Photo: NORPLAN



Bottom: Power House Hall completed | Photo: NORPLAN

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