



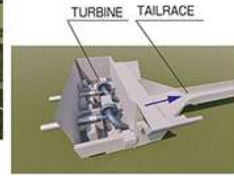
A Tailrace canal has 956 m length, 66 m width bed canal and 3.4 m height. It will return the discharge water back to the river.

Tailrace



A powerhouse will be located on the right bank of the Ketann River. The length of the powerhouse will be 45 m and the width is 23 m, and accommodate two equal size Horizontal Shaft Francis units, generators, flywheels, control rooms, assembly bay and other facilities. The structure of the powerhouse will be a concrete frame structure with galvanized sheet roofing. The switchyard will be located on the rear side of the Powerhouse.

Power house



The penstock is a steel pipe to divert sufficient water for generation to power house, and is resistant to inner water pressure. The penstock is located on ground surface just before the powerhouse and is fixed by anchor blocks. There are two lines of penstock and each line can divert 18 m³/s of water. In total, they can divert 36 m³/s. The length of the penstock is 336.4m and they are made by steel. Internal diameter is 2600mm.

Penstock

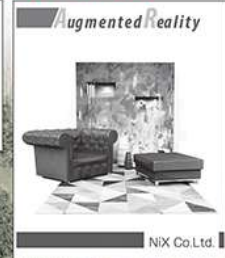
Hydro Power plant specifications

Project Name	Ketaun Tengan Hydro Power Project
Enterprising body	SPV (PT. Lebong Sukses Energi)
Investment structure (joint investment)	PT. Green Investment NIX Holdings Singapore
Location	Lebong province, Bengkulu, Sumatra, Indonesia
Design discharge	360m ³ /s
Net head	41.7m
Power generation capacity	13.1 MW
Turbine Type	Horizontal Francis × 2 unit
Annual Power generation	86 GWh
Off-taker	PT PLN
Electric power selling term	30 years (Feed-in Tariff contract)
Technical consultant	NIX Co., Ltd.



AR Maker

- 凡例
- Facility
 - road
 - Water area
 - Cut
 - Embankment



Bridge



The Bridge will be constructed so that construction equipment can cross the Ketaun river. The Bridge has one pier and its length is 41m and. The bridge will be left after the construction of the power plant and will be used by local people.

Head Pond



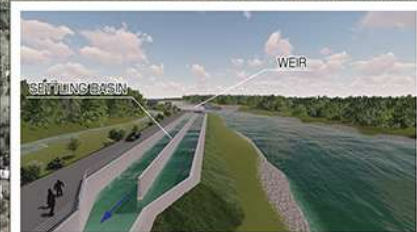
The Head pond is located just before the penstock. This facility supplies stably designed discharge flow to the penstock for stable generation. The Volume of this facility is 4500m³.

Waterway



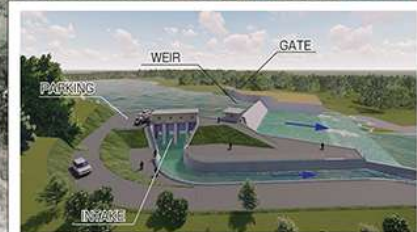
The water way is located between the settling basin and head pond. The purpose of this section is to convey design discharge flow to head pond. The length is 956m , width is 5.7m and water height is 4.0m.

Settling Basin



The settling basin is planned for removing stone or rock from water. The length of the setting basin is 116 m, height is 4.5m, and width is 14m which divided into two sections. The vicinity of water is reduced by expanding the waterway width, and stone and rock will deposit on the bottom of this facility. These deposits will be removed by a flushing canal located at the end of the settling basin.

Weir & Intake



Weir & Intake are planned to take a sufficient amount of water to generate power. The length of the weir is 52.2m and its height is 3m from the river bed. It has two sluiceways with 1.9km of length to discharge sediment sand and stone. The intake has 4 gates with 2.75m width and 3m height, which can be operated mechanically. Water is taken by intake and goes to the settling basin through a transition canal of 106m length.