

Lao People's Democratic Republic  
Peace Independence Democracy Unity prosperity

EDL-GENERATION PUBLIC COMPANY  
NamNgum-1 HPP



No : 3545.....  
NamNgum-1, Date: 26 SEP 2018

**Reservoir Water Situation Reports of NamNgum-1**  
Date : 26/09/2018 at 08:00 AM

**1. Reservoir water level and Tail water level**

- Reservoir water level 212.42 m.asl, Reservoir water Volume = 7,147,280,800 m<sup>3</sup> , Water level has decreased 1 cm compared to 08:00 am yesterday morning
- Tail water level 168.0 m.asl has decreased 10 cm compared to 08:00 am yesterday morning

**2. Reservoir Inflow and Outflow of NamNgum-1 HPP**

- A. Reservoir Inflow** = 641.5 m<sup>3</sup>/s = 55,425,600 m<sup>3</sup>/day  
 All amount included: - inflow from NNG-2 = 426.5 m<sup>3</sup>/s = 36,850,000 m<sup>3</sup>/day  
 - inflow from others sources = 215.0 m<sup>3</sup>/s = 18,575,600m<sup>3</sup>/day
- B. Reservoir Outflow** = 679.1 m<sup>3</sup>/s = 58,682,016 m<sup>3</sup>/day  
 All amount included: - Turbines Discharge = 554.5 m<sup>3</sup>/s = 47,912,256 m<sup>3</sup>/day  
 - Spillway Discharge = 124.6 m<sup>3</sup>/s = 10,769,760 m<sup>3</sup>/day
- the Height of Spillways gate opened 30 cm Spillways discharge = 124.6 m<sup>3</sup>/s
  - Rainfall at NamNgum 1 Raingauge is 0 mm

**C. Pak ka ngoung gauge the water level at 5.80 m**

- Flow at Pak ka ngoung gauge (Qpn) = 988.2 m<sup>3</sup>/s
- All amount included: - Flow from NamNgum 1 (Qng1) = 679.1 m<sup>3</sup>/s  
 - Flow from Nam Song River (Qns) = 98.1 m<sup>3</sup>/s  
 - Flow fom Nam Lik1-2 (Qnl1-2) = 111.1 m<sup>3</sup>/s  
 - Flow from others small tributeries (Q) = 99.8 m<sup>3</sup>/s

**3. Reservoir Water Balance (A-B) =(-37.6) m<sup>3</sup>/s =(3,256,416) m<sup>3</sup>/day**

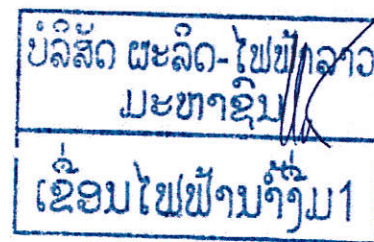
Therefore : Reservoir water level has decreased 1 cm/day

**4. Streamgauge data along Namlik river and NamNgum Downstream River compared to 08:00 AM yesterday morning as follow:**

- Water level at Pakkangoung gauge is 5.80 m at 08:00 am it is seen that water level has decreased 40 cm (6.20 m)
- Water level at Vernkham gauge is 7.45 m at 08:00 am it is seen that water level has decreased 45 cm (7.90 m)

Remarks	Reservoir Water Level	Tail water level
Dangerous level	= 215.0 m.asl	175.00 m.asl
Warning level	= 214.0 m.asl	173.00 m.asl
Full supply Level	= 212.3 m.asl	172.00 m.asl
Normal level	= 212.0 m.asl	167.50 m.asl

Director of NamNgum-1 HPP



**Buavanh CHANSAVATH**  
Director