

Lao People's Democratic Republic  
Peace Independence Democracy Unity prosperity

EDL-GENERATION PUBLIC COMPANY  
NamNgum-1 HPP



No : ...3644...  
NamNgum-1, Date: 03 OCT 2018

**Reservoir Water Situation Reports of NamNgum-1**  
Date : 03/10/2018 at 08:00 AM

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

- Reservoir water level 212.40 m.asl, Reservoir water Volume = 7,140,767,998 m<sup>3</sup> , Water level has decreased 4 cm compared to 08:00 am yesterday morning
- Tail water level 168.0 m.asl has not change compared to 08:00 am yesterday morning

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

A. Reservoir Inflow	= 503.1 m <sup>3</sup> /s	= 43,471,864 m <sup>3</sup> /day
All amount included: - inflow from NNG-2	= 275 m <sup>3</sup> /s	= 23,760,000 m <sup>3</sup> /day
- inflow from others sources	= 228.1 m <sup>3</sup> /s	= 19,707,840 m <sup>3</sup> /day
B. Reservoir Outflow	= 653.9 m <sup>3</sup> /s	= 56,497,464 m <sup>3</sup> /day
All amount included: - Turbines Discharge	= 529.1 m <sup>3</sup> /s	= 45,711,000 m <sup>3</sup> /day
- Spillway Discharge	= 124.8 m <sup>3</sup> /s	= 10,786,464 m <sup>3</sup> /day
• the Height of Spillways gate opened 30 cm	Spillways discharge = 124.8 m <sup>3</sup> /s	
- Rainfall at NamNgum 1 Raingauge	is 0 mm	

**C. Pak ka ngoung gauge the water level at 5.76 m**

• Flow at Pak ka ngoung gauge (Qpn)	= 976.5 m <sup>3</sup> /s
All amount included: - Flow from NamNgum 1 (Qng1)	= 653.9 m <sup>3</sup> /s
- Flow from Nam Song River (Qns)	= 0.6 m <sup>3</sup> /s
- Flow fom Nam Lik1-2 (Qnl1-2)	= 134.0 m <sup>3</sup> /s
- Flow from others small tributeries (Q)	= 188.0 m <sup>3</sup> /s

**3. Reservoir Water Balance (A-B) = (-150.8) m<sup>3</sup>/s = (-13,029,120) m<sup>3</sup>/day**

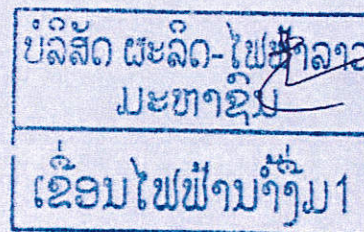
Therefore : Reservoir water level has decreased 4 cm compared to 08:00 am yesterday morning

**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 5.76 m at 08:00 am it is seen that water level has decreased 8 cm (5.84 m)
- Water level at Vernkham gauge is 6.74 m at 08:00 am it is seen that water level has increased 54 cm (6.20 m)

Director of NamNgum-1 HPP

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



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