DON SAHONG HYDROPOWER COMPANY

DSHPP & DSHPE

Work Progress Summary

Content

1- DSHPP (General) Summary

2- DSHPE (Extension) Summary

1 – DSHPP (General) SUMMARY

DON SAHONG HYDROPOWER PROJECT EXPANSION

1- DSHPP SUMMARY – Location

Distance :
Vientiane to Don Sahong HEP ~ 830 km
Pakse to Don Sahong HEP ~ 150 km

2 - DSHPP (General) SUMMARY

RUN-OF-RIVER SCHEME: No significant active storage. Generation follow river flow and water level variations. All flow entering Hou Sahong is discharged through the powerhouse turbines

EMBANKMENT ALONG THE TWO ISLANDS BORDERING HOU SAHONG: Embankments are 7km long; height range from 26 m (PH abutment) to 0 m (Ground Level) U/S. RCC embankment with lowered emergency spillway overflow crest section for dam safety. Total impoundment and embankment area is 26 3 ha.

DESIGN FLOW 2 000 m3/s, INSTALLED CAPACITY 260 MW FOR EXISTING POWER PLANT & ADDITIONAL 65 MW FOR EXPANSION PROJECT: 4+1 Fish friendly bulb turbines at 65 MW each. Minimum flow of 800 m3/s over Khone Phapheng Falls as priority. No change to the total Mekong River flow downstream

DON SAHONG HYDROPOWER PROJECT EXPANSION

1- DSHPP (Phase 1) SUMMARY

2 – DSHPE (Extension) SUMMARY




2 - DSHPE (Extension) SUMMARY

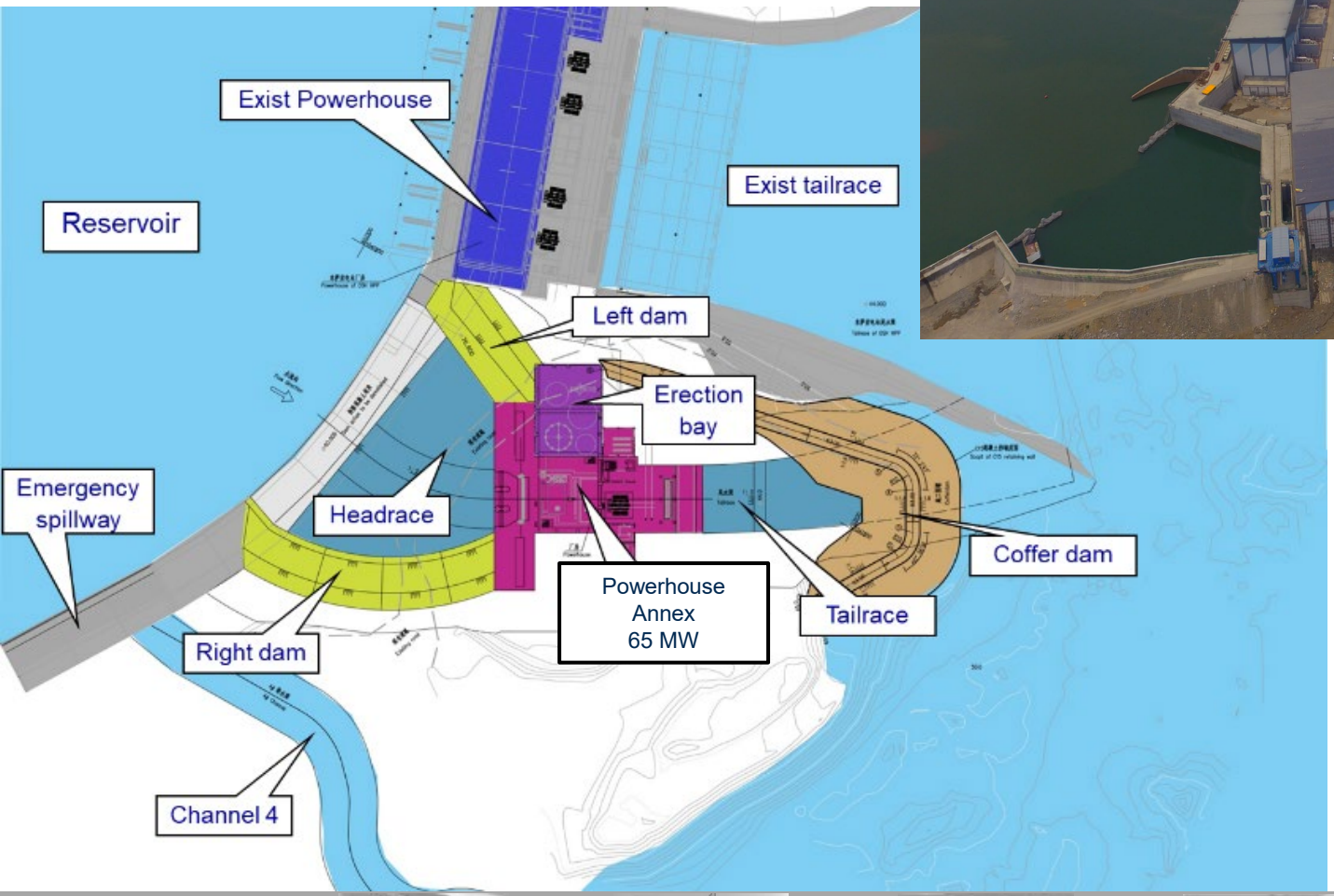
Increasing total installed capacity to 325 MW Expansion involves installation of one more turbine with installed capacity of 65 MW in an adjacent new powerhouse annex, and extension of the switchyard, increasing total installed capacity of the scheme to 325 MW.

Increase annual energy production by 234 GWh The average annual energy production will increase by about 234 GWh after the extension. The power will be sent out by using the existing two 230kV lines of the power station.

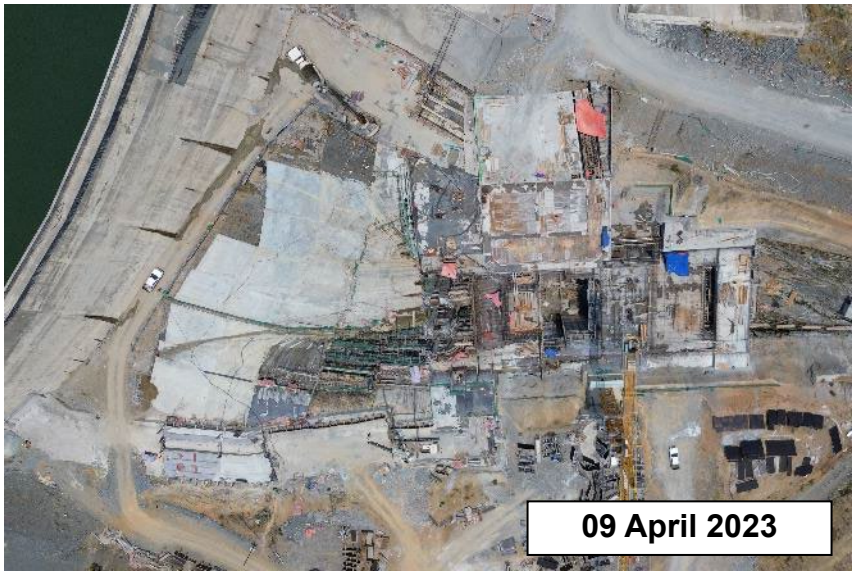
Khone Phapheng Channel have more than 800 m3/s When the discharge of Pakse is 7,035 m3/s, Khone Phapheng Channel will be more than 800 m3/s, therefore all 5 units can generate power.

Same Project boundary, No Impact All works and installations are within the boundary of the Project Site. Impacts are manageable and will be mitigated by well-known technologies

2 - DSHPE (Extension) SUMMARY - Layout

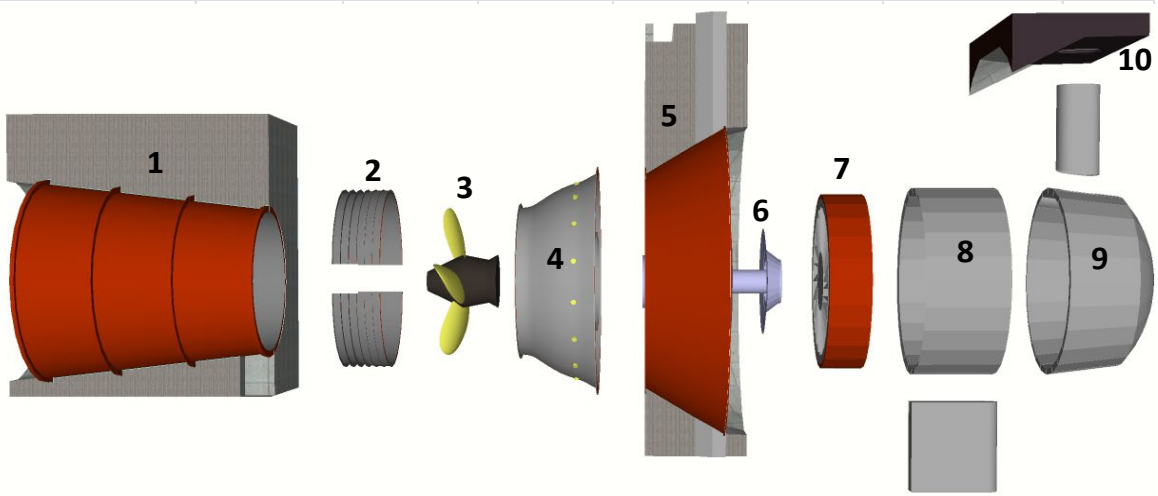


1 – Progress Summary - Civil



1 – Progress Summary - Civil

1 – Progress Summary – M&E

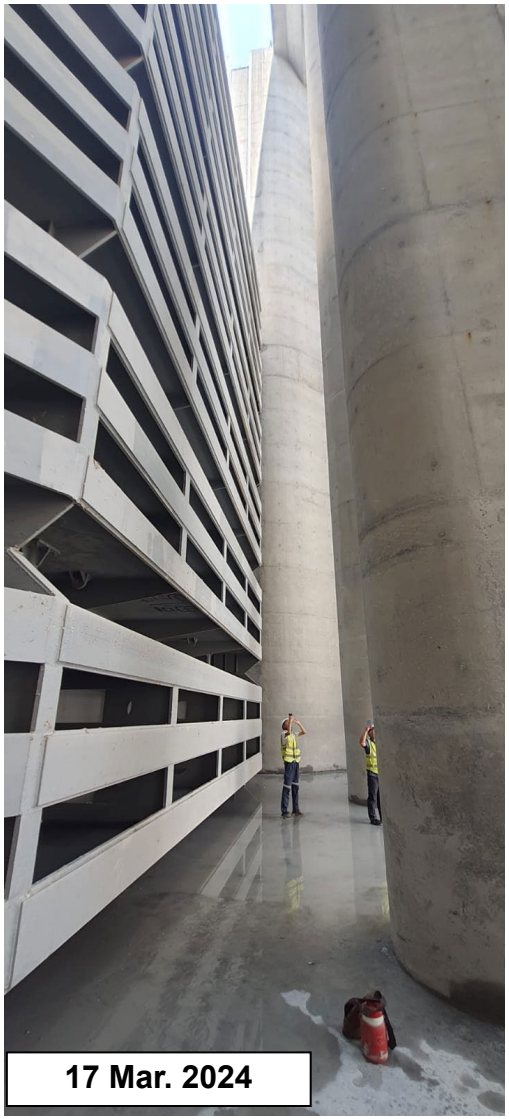


	Manufacturing	Site Delivery	Site Assembly	Installations	2nd Stage Concrete	Final Works
1 -Draft Tube	Completed	Completed	Completed	Completed	Completed	Completed
2 - Runner chamber	Completed	Completed	Completed	Completed	NA	Ongoing
3 - Runner	Completed	Completed	Completed	Completed	NA	Ongoing
4 - Distributor	Completed	Completed	Completed	Completed	NA	Ongoing
5 - Stay Ring	Completed	Completed	Completed	Completed	Completed	Ongoing
6 - Main Shaft	Completed	Completed	Completed	Completed	NA	Ongoing
7 - Rotor	Completed	Completed	Completed	Completed	NA	Ongoing
8 - Stator	Completed	Completed	Completed	Completed	NA	Ongoing
9 - Bulb Nose	Completed	Completed	Completed	Completed	Completed	Ongoing
10 - Hatch Cover	Completed	Completed	Completed	Completed	NA	Ongoing
Main Crane	Completed	Completed	Completed	Completed	Completed	Pending End Const.
U/S Gantry Crane	Completed	Completed	Completed	Completed	Completed	Pending End Const.
Transformer	Completed	Completed	Completed	Completed	Completed	Ongoing
Switchyard	Completed	Completed	Completed	Completed	Completed	Ongoing

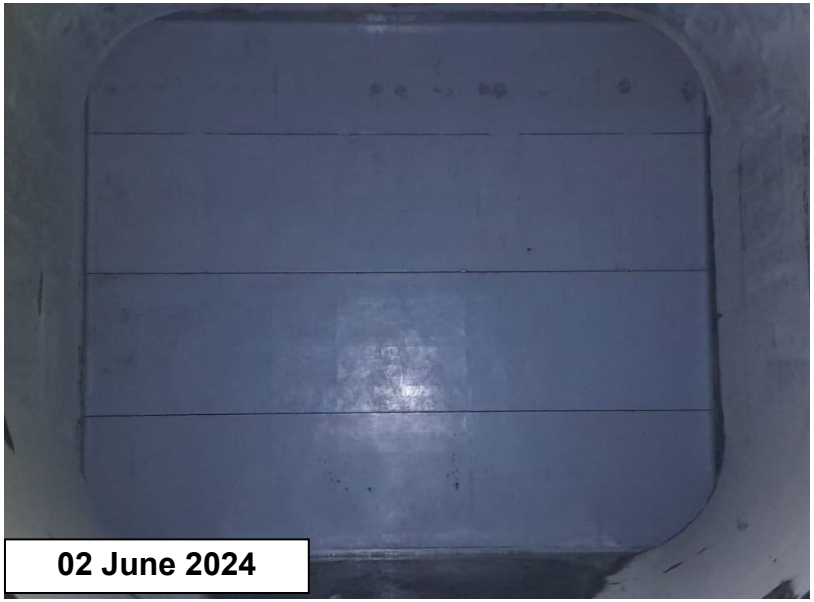
1 – Progress Summary – M&E – *Gate Installations*


02 Dec, 2023


Nov-Dec, 2023

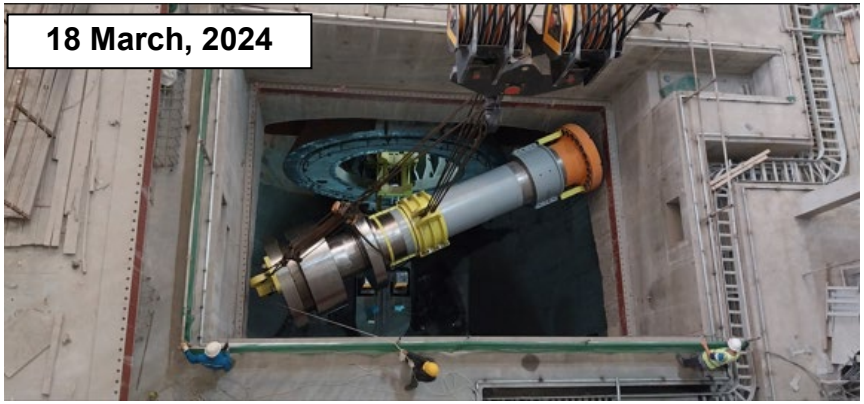

17 Mar. 2024

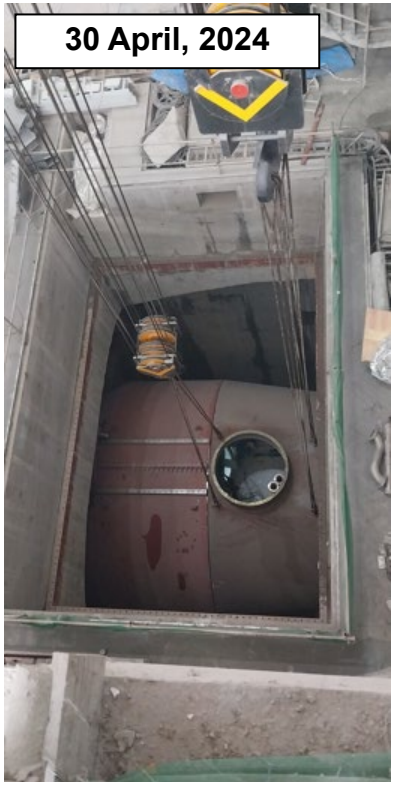

07 May, 2024

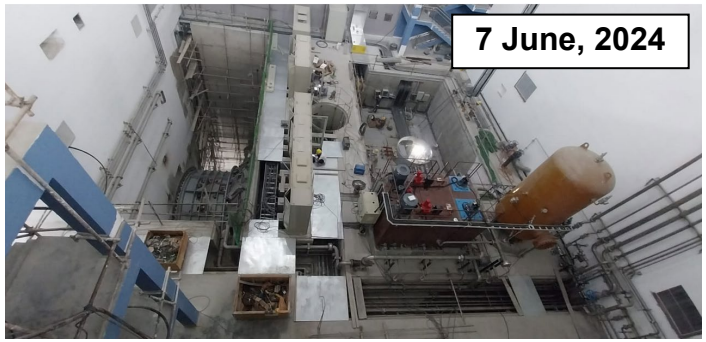

02 June 2024

DON SAHONG HYDROPOWER PROJECT EXPANSION

1 – Progress Summary – M&E – *Turbine Installations*







1 – Progress Summary

WORK PROGRESS AS Of END MAY 2024 is 93 %

- Batching Plant in operation, Crushing Plant removed (there is enough aggregate for remaining concrete works), PH Temporary Crane in operation
- Cofferdam completed; removal commenced
- PH Main Crane and U/S Gantry Crane ready
- Powerhouse & Embankment excavations and grouting works completed
- Inlet Channel Concreting Works Completed
- PH Concreting Works – 98 % (substantially completed)
- PH M&E Works – 92 %
- Embankment Concreting Works – 98 % (substantially completed)

Key Project Milestones Dates

• Erection Bay Crane Installation	Completed
• U/S Gate and Structures ready for existing Dam removal Intake channel water filling	Completed
• Existing Dam embankment removal	Phase 1 Completed
• D/S structures and tailrace channel ready	end April 2024
• Commencement of Testing and Commissioning	12 June 2024
• Commercial operations	1 July 2024