National Consultation in Viet Nam
Outcomes of the first round
1. General Information

2. Detail comment for each sector
First National Consultation

- **04 November 2019, Ho Chi Minh City**
- **Participants:**
  - Line Ministries, Agencies, Research Institutions, Independent Experts; People’s Committees, other organizations and practitioners in the Mekong Delta and Media.
Objectives

• **Provide relevant and related information** on LBHPP to concerned stakeholders and general public;

• **Raise awareness and concern** of the stakeholders on LBHPP;

• Seek **views, comments, suggestions, and recommendations** from concerned stakeholders on project technical documents, Technical Review Reports prepared by the MRC Secretariat to prepare for the next round of national consultation.
General comments on the document submitted

- **Data/information**: Not enough data for impacts assessment (ecosystem, biology, fish etc.)
- **Methodology**: Applied world class model/technology, however, more detailed description/evaluation/calibration should be provided;
- **Impact assessment**: Need to carry out the cumulative/transboundary impact assessment, more quantitative assessment, and should compare results with other studies;
- **Mitigation measures**: Lack of proof on effectiveness of mitigation options (for example: fish pass, sediment trap);
- **Monitoring/warning system**: all sectors should be integrated (flood, seismic, dam safety, etc.), implementation of agreed plan should also be monitored.
• Lessons learned from previous PNPCAs should be addressed;
• **Cumulative impacts** of the mainstream **Hydropower cascade** to the Mekong Delta should be assessed, considering key issues in the Mekong Delta (erosion, delta sinking, lack of water resource, etc.) with reference to previous studies/researches and other sources;
• Practical **mitigation measures** should be proposed;
• Other energy development opportunities (solar, wind energy) should be considered.
Next steps

• Continue to study submitted documents by Lao PDR and Technical Review Report by the MRCS to provide further comments;
• Prepare for 2\textsuperscript{nd} round of national consultation;
• Prepare for the upcoming JCWG meetings.
2. Detail comment for each sector
**Methodology:**
- Should provide model calibration reports, with clear indicators to support the assessments on both run-off and regulated capacity;
- Should provide link between runoff/hydrological/hydraulic model.

**Assessment:**
- Should provide more detailed calculation on the backwater impact to Pak Beng, water fluctuation in reservoirs, flow to downstream;
- Should provide analysis of additional scenarios (mainstream + tributaries dam + cascade operation + CC) and compare results with other studies.
Data:
- Location/future plan for measurement of additional data are not clear and need to be provided with more details;
- QA/QC for input data of the models should be provided.

Methodology: applied GSTAR v2.1, with reference of 10 recent studies; need to have suitable indicators for impact assessment and compare results between mathematical and physical models.

Assessment/Scenario: no results in the downstream of the dam; additional scenarios assessment should be provided (human development + operation + CC).
**Water quality and aquatic ecology**

- **Data:** insufficient (for example: no. of plant, animal, endangered species); more detailed assessment on biodiversity, monitoring/management/mitigation plan, eco service to local communities need to be provided;
- **Methodology:** should extend scope of assessment to downstream area, define clear assessment method/indicators;
- **Assessment:** number of species impacted are too small; the eutrophication in the reservoir need to be further considered;
- **Mitigation measures:** should have clearer plan, and proof on effectiveness of the measures.
**Data**: need more updated data; need more information on biological characteristic (size, migration time, etc.)

**Methodology**: should apply assessment for 10 species types (PDG2019)

**Assessment**: should include the migration of larval and juvenile fish and conduct a transboundary impact assessment

**Mitigation measures**:
- Should be synchronous with PakBeng and Xayaburi;
- More detail description on fish lift and its efficiency should be provided considering impacts of the 60MW turbine on the fish pass;
- Other possible mitigation measures
• **Data:** need to use most updated data for study area

• **Methodology:** should have assessment indicators, linkage between environment drivers and economic sectors are not clear, more detailed information should be provided;

• **Assessment:** should extend social and economic impact assessment to downstream areas.
• **Data/information**: Insufficient data/information on detail structure design and equipment of ship lock for evaluation.

• **Methodology**: need to carry out the navigation demand assessment;

• **Operation**: provide more detail on Operation and Risk management, linkage with other transportation facilitates.
**Standards**: PDG 2019, ICOLD, WB and Lao Electric Power Technical Standards (LEPTS 2018);

**Seismic**: should conduct additional study on Geology/Seismic with further investigate on impacts of karst risk to the project.

**Flood**: FS provides design flood and check flood according to PDG, however it does not meet the requirement of LEPTS 2018. Further discussion is needed.

**Risk management**: Dam break scenario had been carried out with flood map provided, however, more detail on Emergency management plan, capacity for local communities are required.
Thank you!