Nam Theun 2 Social and Environment Project (P049290)

**Key Dates**

**Key Project Dates**
- Bank Approval Date: 31-Mar-2005
- Effectiveness Date: 10-Jun-2005
- Planned Mid Term Review Date: 04-Mar-2010
- Actual Mid-Term Review Date: 04-Mar-2010
- Original Closing Date: 31-Dec-2017
- Revised Closing Date: 31-Dec-2017

**Project Development Objectives**

Project Development Objective (from Project Appraisal Document)
To generate revenues, through environmentally and socially sustainable development of NT2's hydropower potential, which will be used to finance priority poverty reduction and environmental management programs.

Has the Project Development Objective been changed since Board Approval of the Project Objective?
No

**Components**

Name
- Hydropower Facility: (Cost $13.09 M)
- Management of Environmental and Social Impacts: (Cost $3.09 M)
- Monitoring and Evaluation Arrangements: (Cost $1.15 M)
- N/A

**Overall Ratings**

<table>
<thead>
<tr>
<th>Name</th>
<th>Previous Rating</th>
<th>Current Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Progress towards achievement of PDO</td>
<td>⚫ Moderately Satisfactory</td>
<td>⚫ Moderately Satisfactory</td>
</tr>
<tr>
<td>Overall Implementation Progress (IP)</td>
<td>⚫ Moderately Unsatisfactory</td>
<td>⚫ Moderately Satisfactory</td>
</tr>
<tr>
<td>Overall Risk Rating</td>
<td>⚫ High</td>
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</table>
Implementation Status and Key Decisions

The Nam Theun 2 Hydropower Project began commercial operations on schedule and within budget in 2010. Electricity and revenue generation continue to meet or exceed targets. Resettlement and environmental management activities have been implemented, reflecting international good practice in several areas. Overall, significant progress has been made in project implementation since the previous Implementation Status Report (ISR) in July 2016. Specific work programs, focused on strengthening project achievements and environment and social sustainability, continue to be implemented in each of the four key project areas (Revenue Management, Resettlement Program, Downstream Areas, and Watershed Management).

Revenue Management Program

NT2 revenues finance priority poverty reduction and environmental management activities and programs such as School Block Grants, Free Maternal and Child Health Scheme, Health Equity Fund, and the Poverty Reduction Fund (as well as support to Ministries such as Education and Health) through the Revenue Management Program. In the 2017 national budget, the Government of Lao PDR allocated US$52 million of NT2 revenues to eligible programs and projects, bringing allocations to 99% of net revenues received from the project to date by the Government of Lao PDR compared to less than 70% in July 2016. Outstanding audits for FY2013/2014 NT2 Revenue and Expenditure Statements were received by the World Bank, bringing those audits up to date. Currently, only the Audit Reports of Eligible Programs for FY13/14-14/15 are still outstanding. In addition, the State Audit Organization (SAO) carried out a self-assessment, and the Government has recently approved the Ministry of Finance’s Public Finance Development Strategy, an indication of the growing strength of the public financial system. The World Bank is working with the Ministry of Finance to develop a mechanism to publicly disclose NT2 revenue and expenditure audits before December 2017.

Resettlement on the Nakai Plateau

Resettlement of 6,300 project-affected people was completed by 2008. The NT2 project continues to deliver significant infrastructure, health and education benefits for resettled communities on the plateau. Resettler income restoration has been confirmed and the ambitious income targets set by the Concession Agreement have been achieved by 97% of resettler households, with the remaining 3% receiving support through NTPC-funded social safety net (1.2% or 15 vulnerable households) or special programs (1.8% or 28 poor households).

Work continues in order to support sustainability of livelihoods on the plateau, in response to recommendation of the independent Environmental and Social Panel of Experts (POE) to extend Resettlement Implementation Period (RIP) to the end of 2017, primarily based on sustainability concerns. A Joint Working Group chaired by the Ministry of Energy and Mines, and including the Nam Theun 2 Power Company (NTPC), participating international financial institutions (IFIs) and various levels of the Government of Lao PDR, prepared a Comprehensive Action Plan for Resettlement Implementation Period Closure and Beyond (CAP) for the Nakai Plateau. This plan covers the four livelihood pillars noted in the Concession Agreement (agriculture/livestock, forestry, fisheries, and off-farm incomes), as well as specific concerns related to poor/vulnerable households, ethnic minorities, and gender. Development of the CAP started with the recommendations of the POE as set out in their October 2015 report, augmented by involvement of national government departments, NTPC, IFIs, provincial and district governments and villagers, with the continued involvement of the POE.

Implementation of the CAP is underway.

There has been a significant strengthening of the presence and role of the provincial and district governments, which have taken on direct responsibility for identified tasks, and are defining a long-term working relationship with the NTPC. Over the past year, the District Government, in cooperation with the Resettlement Management Unit, have been proactively engaged in managing development needs with and for the affected villages, which is key to transitioning from project-driven to community-driven development planning.

Several areas require continued attention, as specified in the work programs. These include: (i) the village forestry livelihood pillar to engage the villagers in determining their preferred use of this important resource, and clarifying the role of timber products under revised national policies; (ii) support to poor and vulnerable households (15 and 28 households, respectively) that have not yet reached the household income target; (iii) capacity strengthening and planning at the district government and village levels to ensure inclusive development planning and sustained achievement of project objectives.

Beyond the closure of the RIP, NTPC has committed to establish the Nam Theun 2 Development Fund (NT2DF), which will provide US$750,000 per year from close of the RIP to the end of the concession period in 2035 to continue support to livelihoods as part of a Medium Term Development Program (MDTDP). It will further strengthen sustainability by helping to integrate the communities into the national Sam Sang policy for rural development. Additional development resources beyond the RIP will support livelihoods on the Plateau over the medium term, including an AfD project on agriculture and an ADB project on tourism.
The Downstream Areas
The Downstream Program (DSP), which addresses the impacts of changes in river flow on the Xe Bang Fai River for the people living in the Downstream Areas, was handed over from NTPC to the Government of Lao PDR at the end of December 2012, after NTPC had exceeded its obligations under the Concession Agreement. The DSP Resettlement Implementation Period was closed in 2014 by the Government's Resettlement Committee, following their declaration that livelihoods of the Project Affected People in the Downstream Areas had been restored. The World Bank recommends that monitoring be continued and additional attention be paid to those households where declines in household fishing incomes may not have been fully offset by the Downstream Program. The World Bank is working with GoL to implement a set of recommendations, supported by a GoL budget for 2016-2017. Key actions are: (i) additional monitoring of both fish catch and erosion; (ii) reinvigorating the Adaptive Management Committee to address issues related to fisheries, water quality and riverbank erosion monitoring; (iii) reactivating the grievance redress mechanism for erosion issues; and (iv) developing an action plan for livelihoods restoration (including Village Income Restoration Funds).

The NT2 Watershed Area (Nakai Nam Theun National Protected Area)
The NT2 Watershed, including the Nakai-Nam Theun National Protected Area (NNT-NPA), is an environmental offset for the NT2 hydropower project, and a valuable biodiversity area for South-east Asia. The NNT-NPA is managed by the Watershed Management and Protection Authority (WMPA), which has responsibility for conservation, as well as the livelihoods of the villages located within the protected area. Forest cover has largely been maintained; however, pressure on wildlife populations and high-value timber remains. Institutional reform and restructuring of the WMPA, which was also identified in previous ISRs, are urgently needed to increase effectiveness.

Progress on these reforms in the last year has been notable. Specifically, an action plan to complete the institutional reform of the WMPA was agreed among key stakeholders in October 2016, and endorsed in principle by the Prime Minister on January 26, 2017 (PMO Notice #147). A key action in the plan – a revised WMPA Decree – includes two important decisions: (i) transfer of leadership from the Provincial Government to the central Ministry of Agriculture and Forests (MAF); and (ii) transformation of the NNT-NPA into Lao PDR’s first national park. The Decree was approved by the Prime Minister on April 22, 2017 (Decree #122/PM) and is expected to help accelerate key institutional reforms, in particular re-staffing, establishing conservation expertise in the WMPA, and a five-year plan for management of the watershed.

Risks
Systematic Operations Risk-rating Tool

<table>
<thead>
<tr>
<th>Risk Category</th>
<th>Rating at Approval</th>
<th>Previous Rating</th>
<th>Current Rating</th>
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</thead>
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<td>Political and Governance</td>
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<td>● High</td>
<td>● Substantial</td>
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<tr>
<td>Macroeconomic</td>
<td>--</td>
<td>● High</td>
<td>● Substantial</td>
</tr>
<tr>
<td>Sector Strategies and Policies</td>
<td>--</td>
<td>● Substantial</td>
<td>● Substantial</td>
</tr>
<tr>
<td>Technical Design of Project or Program</td>
<td>--</td>
<td>● Low</td>
<td>● Low</td>
</tr>
<tr>
<td>Institutional Capacity for Implementation and Sustainability</td>
<td>--</td>
<td>● High</td>
<td>● High</td>
</tr>
<tr>
<td>Fiduciary</td>
<td>--</td>
<td>● High</td>
<td>● Substantial</td>
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<tr>
<td>Environment and Social</td>
<td>--</td>
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<td>● High</td>
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<tr>
<td>Stakeholders</td>
<td>--</td>
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<td>● Substantial</td>
</tr>
<tr>
<td>Other</td>
<td>--</td>
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</tr>
<tr>
<td>Overall</td>
<td>--</td>
<td>● High</td>
<td>● High</td>
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</table>
Results

Project Development Objective Indicators

► Allocation and Utilization of NT2 Revenues for Poverty Reduction and Environmental Management Purposes (Percentage, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
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<tr>
<td>Value</td>
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<td>31-May-2016</td>
<td>15-Apr-2017</td>
<td>31-Dec-2017</td>
</tr>
</tbody>
</table>

Comments
Source: Audited financial statements from FY09/10-FY14/15 and unaudited financials for FY15/16. The ratio is calculated as allocations made by GOL towards eligible activities (US$179.8 mln) as a percentage of (net) NT2 revenues received by GOL (as defined in the DGA) (US$181.6 mln).

► Household Income Targets of Resettled Households on Nakai Plateau (Percentage, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
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<td>97.00</td>
<td>98.20</td>
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<tr>
<td>Date</td>
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<td>31-May-2016</td>
<td>15-Apr-2017</td>
<td>30-Jun-2013</td>
</tr>
</tbody>
</table>

Comments
Household target is to be above the rural poverty line (as per the NT2 Concession Agreement), which significantly exceeds pre-project incomes. The Action Plan for RIP closure includes provisions for social safety net for vulnerable households and special programs for poor households. The total of 98.2% includes households receiving social safety net measures (1.2% or 15 households).

Source: Latest available info is from Living Standards Measurement Survey (LSMS) #7, (NTPC, 2013) and NTTPC assessments related to the social safety net measures. New LSMS information is expected in June 2017 and further NTTPC field assessments are expected over the summer of 2017.

► Watershed Environmental Protection (Text, Custom)

<table>
<thead>
<tr>
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<th>Actual (Current)</th>
<th>End Target</th>
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</thead>
<tbody>
<tr>
<td>Value</td>
<td>Unknown</td>
<td>Scientific data remains limited. The team's view, and the POE's</td>
<td>Various reviews suggest that habitat and wildlife has degraded, although</td>
<td>Conservation and management of</td>
</tr>
</tbody>
</table>


assessment, point to remaining challenges in addressing threats to the wildlife and the environment, despite progress in law enforcement and patrolling since 2013. It is noted that pressures on biodiversity areas are pervasive across Laos.

Forest cover has been maintained. However, there is still insufficient data or evaluation of existing data to conclude objectively.

the NT2 watershed results in no further degradation of habitats or declines in populations of threatened species.

<table>
<thead>
<tr>
<th>Date</th>
<th>31-May-2005</th>
<th>31-May-2016</th>
<th>15-Apr-2017</th>
<th>31-Dec-2017</th>
</tr>
</thead>
</table>

Comments
Based on information provided during the Jan/Feb 2017 IFI mission and subsequent discussions and/or field visits by technical team members. However, it is noted that several steps have been taken over the last year to accelerate reforms to strengthen the Watershed Management and Protection Authority (WMPA) including Prime Ministerial approval of an Action Plan and Decree transferring leadership of WMPA to the Ministry of Agriculture and Forestry (responsible for protected areas) and identifying the Watershed as part of Lao PDR's first national park. Prior to end-2017, efforts are expected to be undertaken to: (a) update information on the forest cover and (b) analyze data collected in the past 10 years to assess the threat and wildlife trends.

<table>
<thead>
<tr>
<th>Generation Capacity of Hydropower constructed or rehabilitated under the project (Megawatt, Custom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline</td>
</tr>
<tr>
<td>Value</td>
</tr>
<tr>
<td>Date</td>
</tr>
<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Generation Capacity of Hydropower constructed under the project (Megawatt, Custom Breakdown)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline</td>
</tr>
<tr>
<td>Value</td>
</tr>
<tr>
<td>Date</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Resettled Villages Meeting Village Income Targets (Percentage, Custom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
### Maintenance of pre-project levels of income and protein equivalent in affected villages in the Xe Bang Fai river and the Nam Theun river

<table>
<thead>
<tr>
<th>Value</th>
<th>0.00</th>
<th>100.00</th>
<th>100.00</th>
<th>100.00</th>
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</thead>
<tbody>
<tr>
<td>Date</td>
<td>31-May-2005</td>
<td>31-May-2016</td>
<td>15-Apr-2017</td>
<td>31-Dec-2017</td>
</tr>
</tbody>
</table>

**Comments**

> The Downstream Socioeconomic Survey implemented by NTPC in 2009 provides baseline values for incomes and consumption of fish and meat in affected villages prior to project impacts.

- **Baseline**: Not yet achieved.
- **Actual (Current)**: Not yet achieved. Declines in fishing income for some households are not yet fully offset.
- **End Target**: Affected villages in XBF and NT maintain their pre-project levels of income and protein equivalent from alternate livelihood options during the immediate years after COD.

### Quality of Life in Enclave Villages (villages located in the watershed protected area)

<table>
<thead>
<tr>
<th>Value</th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Value</strong></td>
<td>Average household income was estimated to be around 375 USD per household per year. Schools were lacking in</td>
<td>Little further progress has been noted during 2015. WMPA has focused on conservation. There</td>
<td>Physical infrastructure has improved and communities have largely continued to derive benefit from the</td>
<td>Improved quality of life for the enclave villages, with higher incomes,</td>
</tr>
</tbody>
</table>

**Date**

**Comments**
Based on information provided during the Jan/Feb 2017 IFI mission and subsequent discussions and/or field visits by technical team members. Sources: (a) NTPC Downstream Socio-Economic Surveys (DSEs) conducted in 2009, 2012, and 2014; and (b) WB-commissioned livelihood assessment (2016). Since 2013, GoL has been responsible for ongoing implementation of the XBF Downstream Program activities.
most of the villages in the NT2 Watershed and wherever there are schools the level of teaching and facilities were poor. Healthcare services were erratic. Malaria, respiratory diseases and gastrointestinal diseases were common. Infant mortality rates were very high, drinking water rarely boiled and general sanitation very poor. have been few other investments in these villages in the past year.

land resources. Discussion and observations in the enclave villages suggest it is likely the affected villages have at least maintained their pre-project levels of income and protein equivalent from alternative livelihood options. Before end-2017, a household survey of the 13 enclave villages is proposed.

<table>
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<tr>
<th>Date</th>
<th>31-Dec-1997</th>
<th>31-May-2016</th>
<th>15-Apr-2017</th>
<th>31-Dec-2017</th>
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</thead>
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**Comments**
Based on information provided during the Jan/Feb 2017 IFI mission and subsequent discussions and/or field visits by technical team members. Source: Baseline info from Ethnic Minority Development Plan, SEMFOP 1, Watershed Management and Protection Authority (WMPA), 2005.

### Water Quality Adequacy in Nam Theun reservoir and Xe Bang Fai

<table>
<thead>
<tr>
<th>Value</th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Water quality corresponds to natural, pre-project conditions</td>
<td>Water quality is adequate to ensure sufficiency and diversity of fish stock in reservoir, XBF and NT, and also pose no threat to public health.</td>
<td>Achieved: Water quality is adequate to ensure sufficiency and diversity of fish stock in reservoir, XBF and NT, and also pose no threat to public health.</td>
<td>Water quality is adequate to ensure sufficiency and diversity of fish stock in reservoir, XBF and NT, and also pose no threat to public health.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date</th>
<th>31-May-2005</th>
<th>31-May-2016</th>
<th>15-Apr-2017</th>
<th>31-Dec-2017</th>
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</table>

**Comments**
Based on information provided during the Jan/Feb 2017 IFI mission and subsequent discussions and/or field visits by technical team members. Source: NTPC water quality monitoring data.

**Overall Comments**
### Intermediate Results Indicators

**Key wildlife threats such as hunting and further habitat loss having greatly reduced (Yes/No, Custom)**

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<thead>
<tr>
<th></th>
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<td>31-May-2016</td>
<td>15-Apr-2017</td>
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**Comments**
Based on information provided during the Jan/Feb 2017 IFI mission and subsequent discussions and/or field visits by technical team members. Forest cover has been maintained. However, similar to other protected areas in Lao PDR, wildlife threats from poaching remain severe.

**Annual average export to Electricite du Laos is not less than 200 GWh (Gigawatt-hour (GWh), Custom)**

<table>
<thead>
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</table>

**Comments**

**Annual average export to Electricity Generating Authority of Thailand is not less than 5,000 GWh (Gigawatt-hour (GWh), Custom)**

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<td>31-May-2016</td>
<td>15-Apr-2017</td>
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</table>

**Comments**
Source: Information provided to the IFI mission in Jan/Feb 2017 and NTPC Semi-Annual Operating Report for July-December, 2016 (issued 3/31/2017). Despite low water inflow for the past two years (due to the effects of the El Niño phenomenon) NTPC has met or outperformed its annual electricity generation targets. Although generation for 2016 was somewhat below NTPC’s yearly target (as was the case in 2015 because NTPC elected to keep water in the reservoir to help meet its future generation targets), there was no financial impact to NTPC there was again sufficient “accumulated supply excess” (generated in previous years but not paid for yet) to compensate for the shortfall.

**The Watershed Management Protection Authority is able to execute all designated managerial functions in a technically sound, transparent and professional manner. (Yes/No, Custom)**

<table>
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<td>Y</td>
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<td>31-May-2016</td>
<td>15-Apr-2017</td>
<td>31-Dec-2017</td>
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</table>

**Comments**
Based on information provided to the Jan/Feb 2017 IF mission and subsequent discussions and/or field visit by technical team members. For the past several years, the WMPA has been in a continuous process of institutional reform. An Action Plan and revised WMPA Decree, approved by the Prime Minister to guide completion of the reforms, are currently being implemented.

**Effectiveness of Lenders’ Technical Advisor (Text, Custom)**

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<td>Moderately Satisfactory</td>
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**Comments**
The Lenders’ Technical Advisor currently undertakes annual visits and provide reports that identify issues and recommend solutions on behalf of the lenders.
### Financial statements (of NT2 revenues) are published (Yes/No, Custom)

<table>
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<th>End Target</th>
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<td>31-May-2016</td>
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<td>31-Dec-2017</td>
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</tbody>
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**Comments**

Based on information provided during the Jan/Feb 2017 IFI mission and subsequent discussions and/or field visits by technical team members. The GoL is now up-to-date on submission to the IFIs of NT2 Revenue and Expenditure Statements. The Audit Report of Eligible Programs for FY2013/14-FY2014/15 are pending. Public disclosure of the audits has been agreed with the Government; mechanisms for disclosure are being discussed and are scheduled to be in place before December 31, 2017. The World Bank is working with the Government to implement public disclosure of the NT2 revenues and expenditure audits. by project closure.

### Audit reports for eligible programs (financed with NT2 revenues) are published (annually) (Yes/No, Custom)

<table>
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<td>31-May-2016</td>
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**Comments**

Based on information provided during the Jan/Feb 2017 IFI mission and subsequent discussions and/or field visits by technical team members. Public disclosure of the audits has been agreed with the Government; mechanisms for disclosure are being discussed and are scheduled to be in place before December 31, 2017.

### Basic public and social services are provided and improved in all resettlement villages on the Nakai Plateau (Text, Custom)

<table>
<thead>
<tr>
<th>Value</th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Public and social services were scarce and low quality.</td>
<td>The resettled population continue to benefit from improved and affordable basic services. Ongoing efforts focus on sustaining achievements and reaching closure on outstanding obligations.</td>
<td>Achieved: The resettled population continue to benefit from improved and affordable basic services. Ongoing efforts focus on sustaining achievements and reaching closure on outstanding obligations.</td>
<td>The resettled population benefit from improved, stable and affordable basic services.</td>
</tr>
</tbody>
</table>

---
### Effectiveness of Monitoring by Independent Expert Panels (Text, Custom)

<table>
<thead>
<tr>
<th>Value</th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.00</td>
<td>Effective</td>
<td>Effective</td>
<td></td>
</tr>
</tbody>
</table>

#### Comments
Based on information provided during the Jan/Feb 2017 IFI mission and subsequent discussions and/or field visits by technical team members.

### Private Capital Mobilized (Amount(USD), Custom)

<table>
<thead>
<tr>
<th>Value</th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.00</td>
<td>1,150.00</td>
<td>1,150.00</td>
<td>1,150.00</td>
</tr>
</tbody>
</table>

#### Date

<table>
<thead>
<tr>
<th>Date</th>
<th>31-May-2005</th>
<th>31-May-2016</th>
<th>15-Apr-2017</th>
<th>31-Dec-2017</th>
</tr>
</thead>
</table>

### Dam Safety Review Panel and International Panel of Social and Environmental Experts
Demonstrate ability to ensure dam safety and accomplishment of E&S objectives and CA commitments to income targets of resettlers, watershed preservation, etc.
## Improved community water points constructed or rehabilitated under the project (Number, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>877.00</td>
<td>877.00</td>
<td>877.00</td>
</tr>
<tr>
<td>Date</td>
<td>31-May-2005</td>
<td>31-May-2016</td>
<td>15-Apr-2017</td>
<td>31-Dec-2017</td>
</tr>
</tbody>
</table>

**Comments**

Based on information provided during the Jan/Feb 2017 IFI mission and subsequent discussions and/or field visits by technical team members.

## Vulnerable/marginalized people in proj. area aware of project inv. & benefits (%) (Percentage, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>99.00</td>
<td>99.00</td>
<td>100.00</td>
</tr>
<tr>
<td>Date</td>
<td>31-May-2005</td>
<td>31-May-2016</td>
<td>15-Apr-2017</td>
<td>31-Dec-2017</td>
</tr>
</tbody>
</table>

**Comments**

Info is based on a 2014 survey of the Downstream Area (NTPC 2014), which indicated that 99 percent of affected persons surveyed were aware of the NT2 project. All households on the Nakai Plateau are aware of the project, as many of these households were resettled. In both areas, particular efforts have been made to consult with vulnerable groups such as ethnic minorities and to include women in consultations and awareness-raising.

## Vulnerable/marginalized people aware of project inv. & benefits - male (Number, Custom Supplement)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>2,402.00</td>
<td>2,402.00</td>
<td>2,402.00</td>
</tr>
</tbody>
</table>
### Vulnerable/marginalized people aware of project inv. & benefits - female (Number, Custom Supplement)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>2,425.00</td>
<td>2,425.00</td>
<td>2,425.00</td>
</tr>
</tbody>
</table>

### People in the project area - male (number) (Number, Custom Supplement)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>77,138.00</td>
<td>77,138.00</td>
<td>77,138.00</td>
</tr>
</tbody>
</table>

### People in the project area – female (number) (Number, Custom Supplement)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>81,219.00</td>
<td>81,219.00</td>
<td>81,219.00</td>
</tr>
</tbody>
</table>

### Roads rehabilitated, Rural (Kilometers, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>120.00</td>
<td>120.00</td>
<td>120.00</td>
</tr>
<tr>
<td>Date</td>
<td>31-May-2005</td>
<td>31-May-2016</td>
<td>15-Apr-2017</td>
<td>31-May-2017</td>
</tr>
</tbody>
</table>
### Roads constructed, Rural (Kilometers, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Value</strong></td>
<td>0.00</td>
<td>150.00</td>
<td>150.00</td>
<td>150.00</td>
</tr>
<tr>
<td><strong>Date</strong></td>
<td>31-May-2005</td>
<td>31-May-2016</td>
<td>15-Apr-2017</td>
<td>31-Dec-2017</td>
</tr>
</tbody>
</table>

### Target popln with use or ownership rights recorded as a result of the project (Number, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Value</strong></td>
<td>0.00</td>
<td>6,300.00</td>
<td>6,300.00</td>
<td>6,300.00</td>
</tr>
<tr>
<td><strong>Date</strong></td>
<td>31-May-2005</td>
<td>31-May-2015</td>
<td>15-Apr-2017</td>
<td>31-Dec-2017</td>
</tr>
</tbody>
</table>

**Comments**
Target population counted as the number of resettler households.

### Areas brought under enhanced biodiversity protection (ha) (Hectare(Ha), Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Value</strong></td>
<td>0.00</td>
<td>400,000.00</td>
<td>400,000.00</td>
<td>400,000.00</td>
</tr>
<tr>
<td><strong>Date</strong></td>
<td>31-May-2005</td>
<td>31-May-2016</td>
<td>15-Apr-2017</td>
<td>31-Dec-2015</td>
</tr>
</tbody>
</table>

### Direct project beneficiaries (Number, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Value</strong></td>
<td>0.00</td>
<td>158,357.00</td>
<td>158,357.00</td>
<td>158,357.00</td>
</tr>
<tr>
<td><strong>Date</strong></td>
<td>31-May-2005</td>
<td>31-May-2016</td>
<td>15-Apr-2017</td>
<td>29-Dec-2017</td>
</tr>
</tbody>
</table>

**Comments**
Source: In the NT2 context, affected people are, at the same time, the direct project beneficiaries. The total project beneficiaries number is the sum of male and female beneficiaries.
### Female beneficiaries (Percentage, Custom Supplement)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>51.00</td>
<td>51.00</td>
<td>51.00</td>
</tr>
</tbody>
</table>

### Transmission lines constructed or rehabilitated under the project (Kilometers, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>208.00</td>
<td>208.00</td>
<td>208.00</td>
</tr>
</tbody>
</table>

**Date**
- 31-May-2005
- 31-May-2016
- 15-Apr-2017
- 31-Dec-2017

**Comments**
- Completed in 2012

### Transmission lines constructed under the project (Kilometers, Custom Breakdown)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>208.00</td>
<td>208.00</td>
<td>208.00</td>
</tr>
</tbody>
</table>

**Date**
- 31-May-2005
- 31-May-2016
- 15-Apr-2017
- 31-Dec-2017
Reservoir siltation (volume loss) (million cubic meters) (Text, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>0.02</td>
<td>0.02</td>
<td>Less than 2</td>
</tr>
<tr>
<td>Date</td>
<td>31-May-2005</td>
<td>31-May-2016</td>
<td>15-Apr-2017</td>
<td>31-Dec-2017</td>
</tr>
</tbody>
</table>

Comments
Based on information provided during the Jan/Feb 2017 IFI mission and subsequent discussions and/or field visits by technical team members.

Ministry of Finance reports on implementation of revenue management arrangements and holds annual consultation with NT2 partners (Yes/No, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Date</td>
<td>31-May-2005</td>
<td>31-May-2016</td>
<td>15-Apr-2017</td>
<td>31-Dec-2017</td>
</tr>
</tbody>
</table>

Comments
The Ministry of Finance consults with the World Bank continuously through the year as part of ongoing Revenue Management dialogue. In addition, the IFI annual supervision mission has included review of the revenue management arrangements with Ministry of Finance.

Data on Financial Performance

Disbursements (by loan)

<table>
<thead>
<tr>
<th>Project</th>
<th>Loan/Credit/TF</th>
<th>Status</th>
<th>Currency</th>
<th>Original</th>
<th>Revised</th>
<th>Cancelled</th>
<th>Disbursed</th>
<th>Undisbursed</th>
<th>Disbursed</th>
</tr>
</thead>
<tbody>
<tr>
<td>P049290</td>
<td>IDA-H1550</td>
<td>Effective</td>
<td>XDR</td>
<td>13.10</td>
<td>13.10</td>
<td>0.00</td>
<td>13.10</td>
<td>0.00</td>
<td>100%</td>
</tr>
</tbody>
</table>

Key Dates (by loan)

Overall Comments
Project Loan/Credit/TF Status Approval Date Signing Date Effectiveness Date Orig. Closing Date Rev. Closing Date

**Cumulative Disbursements**

![Graph showing cumulative disbursements](image)

**Restructuring History**

There has been no restructuring to date.

**Related Project(s)**

There are no related projects.