Jharkhand Power System Improvement Project (P162086)

Key Dates

Key Project Dates

- Bank Approval Date: 01-Oct-2018
- Effectiveness Date: 22-Apr-2019
- Planned Mid Term Review Date: 24-Dec-2021
- Original Closing Date: 31-May-2024
- Revised Closing Date: 31-May-2024

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The project development objectives (PDO) are to increase the transmission capacity of electricity network in the state of Jharkhand and strengthen the institutional capacity of state-owned power transmission and distribution utilities.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

Components

Name

- Component 1: Intra-state transmission system strengthening: (Cost $396.20 M)
- Component 2: Technical assistance for institutional development and capacity building of JUSNL: (Cost $13.80 M)
- Component 3: Improving operational efficiency and developing institutional capacity of JBVNL: (Cost $69.20 M)

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>▶ Satisfactory</td>
<td>▶ Satisfactory</td>
</tr>
<tr>
<td>Overall Implementation Progress (IP)</td>
<td>▶ Satisfactory</td>
<td>▶ Moderately Satisfactory</td>
</tr>
<tr>
<td>Overall Risk Rating</td>
<td>▶ Substantial</td>
<td>▶ Substantial</td>
</tr>
</tbody>
</table>

Implementation Status and Key Decisions

The loan has been declared effective in April 2019.

JUSNL: Out of sixteen identified packages, contracts have been awarded for 15 packages, and the procurement process for 16th package is in advanced stages.
JBVNVL: Bids have been invited for package for smart metering in selected areas in Ranchi district. Several consultancies in area of financial management, human resource and power procurement are expected to be procured over next several months.

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>
</tr>
</thead>
<tbody>
<tr>
<td>Political and Governance</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
</tr>
<tr>
<td>Macroeconomic</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Low</td>
</tr>
<tr>
<td>Sector Strategies and Policies</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
</tr>
<tr>
<td>Technical Design of Project or Program</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
</tr>
<tr>
<td>Institutional Capacity for Implementation and Sustainability</td>
<td>□ High</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Fiduciary</td>
<td>□ Substantial</td>
<td>□ Substantial</td>
<td>□ Substantial</td>
</tr>
<tr>
<td>Environment and Social</td>
<td>□ Substantial</td>
<td>□ Substantial</td>
<td>□ Substantial</td>
</tr>
<tr>
<td>Stakeholders</td>
<td>□ Substantial</td>
<td>□ Substantial</td>
<td>□ Substantial</td>
</tr>
<tr>
<td>Other</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Overall</td>
<td>□ Substantial</td>
<td>□ Substantial</td>
<td>□ Substantial</td>
</tr>
</tbody>
</table>

Results

PDO Indicators by Objectives / Outcomes

<table>
<thead>
<tr>
<th>Increase the transmission capacity of electricity network in the state of Jharkhand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount of electricity wheeled through JUSNL network for supply to consumers in the State (Gigawatt-hour (GWh), Custom)</td>
</tr>
<tr>
<td>Parameter</td>
</tr>
<tr>
<td>----------</td>
</tr>
<tr>
<td>Value</td>
</tr>
</tbody>
</table>

Increase in transformation capacity of the power transmission network in the state under the project (Kilovolt-Amphere(KVA), Custom)

<table>
<thead>
<tr>
<th>Parameter</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>0.00</td>
<td>0.00</td>
<td>2,400,000.00</td>
</tr>
</tbody>
</table>
### Strengthen the institutional capacity of state-owned power distribution utility

<table>
<thead>
<tr>
<th>Date</th>
<th>30-Mar-2018</th>
<th>31-Jan-2019</th>
<th>18-Sep-2019</th>
<th>31-May-2024</th>
</tr>
</thead>
</table>

- **Percentage of consumers serviced through upgraded commercial system (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>0.00</td>
<td>0.00</td>
<td>90.00</td>
</tr>
<tr>
<td>Date</td>
<td>01-Mar-2018</td>
<td>31-Jan-2019</td>
<td>31-Mar-2019</td>
<td>31-May-2024</td>
</tr>
</tbody>
</table>

### Strengthen the institutional capacity of state-owned power transmission utility

- **Financial, Procurement and Contract management framework strengthened in JUSNL (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>AFS manually prepared and limited standardization in procurement and contract management practices</td>
<td>SBDs for main type of procurement has been approved by the Board of JUSNL</td>
<td>Revised Delegations of Power have been approved by the Board of JUSNL and notified by the management</td>
<td>FM, Procurement and Contract management framework strengthened</td>
</tr>
<tr>
<td>Date</td>
<td>31-Mar-2018</td>
<td>31-Jan-2019</td>
<td>06-Sep-2019</td>
<td>31-May-2024</td>
</tr>
</tbody>
</table>

### Intermediate Results Indicators by Components

#### Component 1: Intra-state transmission system strengthening

- **Transmission lines constructed under the project (circuit km) (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>0.00</td>
<td>0.00</td>
<td>2,000.00</td>
</tr>
<tr>
<td>Date</td>
<td>31-Mar-2018</td>
<td>31-Jan-2019</td>
<td>18-Sep-2019</td>
<td>31-May-2024</td>
</tr>
</tbody>
</table>

- **Number of transmission substations constructed 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>0.00</td>
<td>0.00</td>
<td>25.00</td>
</tr>
<tr>
<td>Date</td>
<td>31-Mar-2018</td>
<td>31-Jan-2019</td>
<td>18-Sep-2019</td>
<td>31-May-2024</td>
</tr>
</tbody>
</table>

- **Women employed as a percentage of total persons employed in construction activities; (Percentage, Custom)**
### Component 2: Technical assistance for institutional development and capacity building of JUSNL

- **Person-days of JUSNL and JBVNL staff participating in trainings (Number, 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>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>500.00</td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>01-Jun-2018</td>
<td>31-Jan-2019</td>
<td>18-Sep-2019</td>
<td>31-May-2024</td>
</tr>
</tbody>
</table>

- **Person-days of trainings provided to women employees of JUSNL and JBVNL (Number, 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>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>30.00</td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>01-Jun-2018</td>
<td>31-Jan-2019</td>
<td>18-Sep-2019</td>
<td>31-May-2024</td>
</tr>
</tbody>
</table>

### Component 3: Improving operational efficiency and developing institutional capacity of JBVNL

- **Number of smart meters installed (Number, 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>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>300,000.00</td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>01-Jun-2018</td>
<td>31-Jan-2019</td>
<td>18-Sep-2019</td>
<td>31-May-2024</td>
</tr>
</tbody>
</table>

- **Commercial Systems (Billing, Collection and Customer Resource Management) of JBVNL upgraded (Text, Custom)**
## Jharkhand Power System Improvement Project (P162086)

### Baseline vs. Actual

<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>Existing system has limited capacity</td>
<td>Existing commercial system has been improved to include HT billing [supported by IT PMC financed under Bank loan]</td>
<td>Existing commercial system has been improved to include HT billing [supported by IT PMC financed under Bank loan]</td>
<td>Upgraded commercial system has been deployed</td>
<td></td>
</tr>
</tbody>
</table>

| Date | 01-Jun-2018 | 31-Jan-2019 | 18-Sep-2019 | 31-May-2024 |

### Establishment of sexual harassment prevention cell in JBVNL (Yes/No, 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>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

| Date | 01-Jun-2018 | 31-Jan-2019 | 18-Sep-2019 | 31-May-2024 |

### 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>P162086</td>
<td>IBRD-89080</td>
<td>Effective</td>
<td>USD</td>
<td>310.00</td>
<td>310.00</td>
<td>0.00</td>
<td>11.38</td>
<td>298.62</td>
<td>3.7%</td>
</tr>
</tbody>
</table>

#### Key Dates (by loan)

<table>
<thead>
<tr>
<th>Project</th>
<th>Loan/Credit/TF</th>
<th>Status</th>
<th>Approval Date</th>
<th>Signing Date</th>
<th>Effectiveness Date</th>
<th>Orig. Closing Date</th>
<th>Rev. Closing Date</th>
</tr>
</thead>
</table>

### Cumulative Disbursements

10/3/2019
Restructuring History

There has been no restructuring to date.

Related Project(s)

There are no related projects.