Implementation Status & Results
India
Assam State Roads Project (P096018)

Operation Name: Assam State Roads Project (P096018)  
Project Stage: Implementation  
Seq.No: 6  
Status: ARCHIVED  
Archive Date: 01-Sep-2014

Country: India  
Approval FY: 2012  
Region: SOUTH ASIA  
Lending Instrument: Specific Investment Loan

Implementing Agency(ies):

Key Dates
Board Approval Date: 13-Mar-2012
Original Closing Date: 31-Mar-2018
Planned Mid Term Review Date: 31-May-2015
Last Archived ISR Date: 24-Mar-2014
Effectiveness Date: 25-Jan-2013
Revised Closing Date: 31-Mar-2018
Actual Mid Term Review Date

Project Development Objectives
Assam State Roads Project (P096018)
Project Development Objective (from Project Appraisal Document)
The project development objective is to enhance the road connectivity of Assam by assisting the Public Works Roads Department to improve and effectively manage its road network.

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

Component(s)
Component Name  Component Cost
Road Improvements  365.00
Road Sector Modernization and Performance Enhancement  20.00
road safety management  12.00

Overall Ratings
Progress towards achievement of PDO  Satisfactory  Satisfactory
Overall Implementation Progress (IP)  Moderately Satisfactory  Moderately Satisfactory
Overall Risk Rating  Moderate  Moderate

Implementation Status Overview
Road Improvement Works: Out of 20, all the 13 road works procured thus far are under progress. 8 of these works have started to show significant progress. The remaining 5, notwithstanding recent improvements, have yet to gain momentum. With the significant progress in pre-construction activities and lifting of court ban on quarrying operations, these contracts are expected to see significant progress from the beginning of the next working session from October 2014. PWRD needs to ensure close monitoring of the performance of the contractors for road improvement works.
Road Sector Modernization Plan (RSMP): PWRD is making good progress in implementing RSMP. PWRD’s computerization is progressing well: the web-based e-portal has already gone on-line and is scheduled to be launched in August 2014. As a major achievement, the State cabinet has approved the road maintenance policy and the road fund rules. PWRD have prepared annual maintenance contracts for all the districts in the state covering urban areas, and similar contracts for the remaining areas are under preparation. PWRD needs to ensure that the maintenance budget to be approved by the state assembly in August 2014 is made available to fund these contracts. Three major consultancies on asset management, innovative bridge designs, and strengthening of Assam State Roads Board are in an advanced stage of procurement. PWRD has also planned to update road condition data for its 44,000 km. ARRTI has organized three training workshops on procurement and contract management, asset management, and road safety with participation of about 160 engineers from NE (North-East) states during June 2014. ARRTI (Assam Road Research and Training Institute) is assuming the role of the technical agency for NE region with the support of the Ministry of Rural Development provided through the Bank funded PMGSY Rural Roads Project for capacity building of NE states to effectively implement PMGSY.

Road Safety: GOA is showing high level of commitment to road safety: A draft road safety action plan (RSAP) and strategy has been prepared with active participation of various departments including transport, health, police, and education, as well as NGOs. PWRD has already incorporated the recommendations of iRAP surveys in the current designs of road improvement works, identified the road safety improvements on two demonstration corridors, started delivering road safety training to its engineers, and decided to retrofit road safety improvements on existing highways by beginning with about 300 km of priority corridors. This retrofitting will significantly improve road safety on the priority corridors by ensuring compliance to the required road safety engineering measures. PWRD has engaged a road safety expert to facilitate implementation of the road safety component.

<table>
<thead>
<tr>
<th>Country</th>
<th>First Administrative Division</th>
<th>Location</th>
<th>Planned</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>India</td>
<td></td>
<td>State of Assam</td>
<td></td>
<td>✔</td>
</tr>
</tbody>
</table>

### Results

#### Project Development Objective Indicators

<table>
<thead>
<tr>
<th>Indicator Name</th>
<th>Core</th>
<th>Unit of Measure</th>
<th>Baseline</th>
<th>Current</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondary road network in good or fair condition</td>
<td></td>
<td>Percentage</td>
<td>Value</td>
<td>25.00</td>
<td>40.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Date</td>
<td>01-Jan-2012</td>
<td></td>
<td>31-Mar-2018</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Comments</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>The road condition surveys are scheduled in October 2014. As per the limited surveys the progress would be more than 30 percent</td>
</tr>
<tr>
<td>Reduction in travel time on the project corridors</td>
<td></td>
<td>Percentage</td>
<td>Value</td>
<td>0.00</td>
<td>20.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Date</td>
<td>01-Jan-2012</td>
<td></td>
<td>31-Mar-2018</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Comments</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>This indicator will be measured after the completion of project corridors</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>20 percent reduction in the average travel time for cars, buses, and trucks from the pre-construction level</td>
</tr>
<tr>
<td>Safety Rating of project corridors</td>
<td></td>
<td>Percentage</td>
<td>Value</td>
<td>10.00</td>
<td>40.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Date</td>
<td>01-Jan-2012</td>
<td></td>
<td>31-Mar-2018</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Improved Asset Management

<table>
<thead>
<tr>
<th>Number</th>
<th>Value</th>
<th>Date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.00</td>
<td>01-Jan-2012</td>
<td></td>
</tr>
</tbody>
</table>

**Comments**
- Sum of the districts (i) preparing annual maintenance plans using the asset management module of APCP; (ii) using a performance-based or other system of maintenance contracting for state roads; (iii) having a web-based system allowing road inventory and condition data for state roads for public viewing; and (iv) using computerized workflow of APCP for project management. Maximum value of this indicator could be four times the number of districts in the state, i.e., 88 (four times 22).

- The rating is based on a comprehensive road safety assessment procedure developed by the International Road Assessment Program. This indicator will apply to the 300 km roads for widening and strengthening on which the road safety countermeasures will be applied.

**Date**
- 31-Mar-2018

**Comments**
- The actual results will be available once the project is under implementation.
## Increased Maintenance Funding
- **Core:** No
- **Unit of Measure:** Percentage
- **Baseline:** Value 5.00
- **Current:** Value 4500.00
- **End Target:** Value 5000.00
- **Comments:** the actual funding level is already more than inr 4,000 million per annum. The budget is to be approved in August 2014.

## Effective execution of maintenance works
- **Core:** No
- **Unit of Measure:** Percentage
- **Baseline:** Value
- **Current:** Value 17.00
- **End Target:** Value 50.00
- **Date:** 01-Jan-2012
- **Comments:** pwrd is introducing these contracts in all the districts of the state. Thus the end target value is already exceeded.

## Development and Implementation of Road Safety Strategy
- **Core:** No
- **Unit of Measure:** Percentage
- **Baseline:** Value
- **Current:** Value
- **End Target:** Value
- **Date:** 01-Jan-2012
- **Comments:** draft road safety strategy and action plan is already prepared

## Annual district performance reports and maintenance plans published
- **Core:** No
- **Unit of Measure:** Percentage
- **Baseline:** Value 0.00
- **Current:** Value 50.00
- **End Target:** Value
- **Date:** 01-Jan-2012
- **Comments:** consultants are being procured to prepare the reports

## Road improvement and rehabilitation of 500 km core network roads
- **Core:** No
- **Unit of Measure:** Kilometers
- **Baseline:** Value 0.00
- **Current:** Value 500.00
- **End Target:** Value
- **Date:** 01-Jan-2012
- **Comments:** works are under progress

## Pilot projects on innovative design of bridges
- **Core:** No
- **Unit of Measure:** Text
- **Baseline:** Value 0
- **Current:** Value
- **End Target:** Value
- **Date:** 01-Jan-2012
- **Comments:** consultants are being procured

## Institutional strengthening of PWRD
- **Core:** No
- **Unit of Measure:** Percentage
- **Baseline:** Value
- **Current:** Value
- **End Target:** Value
- **Date:** 01-Jan-2012
Public procurement manual adopted.
Value engineering assessment complete.
Productivity enhancement plan for mechanical staff implemented.

<table>
<thead>
<tr>
<th>Training of PWRD staff</th>
<th>Percentage</th>
<th>Value</th>
<th>Date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0.00</td>
<td>01-Jan-2012</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>More than 1500 PWRD staff already trained in asset management, road safety engineering, IT, and other fields</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Road safety improvements</th>
<th>Kilometers</th>
<th>Value</th>
<th>Date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0.00</td>
<td>01-Jan-2012</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>The road safety improvements have already been incorporated in the engineering designs and being implemented as part of ongoing works PWRD is undertaking additional road safety improvements on another 300 km roads so target value of 300 km will be exceeded by about 100 percent</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Roads rehabilitated, Rural</th>
<th>Kilometers</th>
<th>Value</th>
<th>Date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0.00</td>
<td>01-Jan-2012</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.00</td>
<td></td>
<td>About 200 km roads are currently under rehabilitation and another 150 km are under improvement.</td>
</tr>
</tbody>
</table>

**Data on Financial Performance (as of 24-Jul-2014)**

<table>
<thead>
<tr>
<th>Financial Agreement(s) Key Dates</th>
<th>Project</th>
<th>Ln/Cr/Tf</th>
<th>Status</th>
<th>Approval Date</th>
<th>Signing Date</th>
<th>Effectiveness Date</th>
<th>Original Closing Date</th>
<th>Revised Closing Date</th>
</tr>
</thead>
</table>

Page 5 of 7
The state cabinet has approved the road maintenance policy including the road fund rules.
PWRD's web-based e-portal is scheduled to be launched in August 2014
GOA has drafted a road safety action plan aiming to reduce road accidents at a rate of 5 percent per annum
PWRD is introducing area-wide maintenance contracts for all the districts in the state
PWRD is undertaking road safety improvement schemes for about 300 km of priority roads
Assam Road Research and Training Institute has started to organize many training courses for the engineers for NE region.

Restructuring History
There has been no restructuring to date.

Related Projects
P119947-Scaling up of Assam PWD Computerization Project