











## 6. Results

The analysis done on the case study shows that's for January the project delay of 7 day is minimized completely by both schedule compression technique Fast-tracking and Crashing. But the increase in total project cost is minimum in Fast-Tracking. Time is constraint in this study and so keeping in mind the budgeted cost of project, Fast Tracking will be the proposed solution after January. Similarly when the proposed solution after January is tracked as per actual durations the delay comes to 3 days. Both schedule compression techniques are applied and again Fast-Tracking comes out as the proposed solution after February month. Similarly in the month of March the delay of project comes out to be 12 days. Results of Fast tracking and Crashing shows that project delay of 12 days after that month is completely compensated by applying Crashing to the critical activities of the project after March but it is not possible by Fast-Tracking. Thus Crashing comes out to be the proposed solution after March.

## 7. Conclusion

This study shows that any project which is behind schedule can be brought back by applying schedule compression techniques like Fast tracking and Crashing on schedule. Fast tracking should be applied to the project at the initial stage to the project to minimize the project delay because there is no increase in the project cost as in Fast Tracking only the relationships between the activities are changed to reduce the project duration. Fast tracking should be done keeping in mind the risk associated with that activities because unplanned crashing will lead to escalation of project cost or high cost of re-work. Crashing should be applied to the project after there is no scope for fast tracking of project. Crashing should be done to those activities in critical path whose cost slopes are smaller. In this way the project delay can be minimized by applying schedule compression technique to project and can be helpful as a decision making tool for the client or contractors in carrying out projects where time is main constraint.

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