Executive Summary

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1. **Title of the Project:**
   Development of drug-eluting coatings for self-expandable peripheral stent for the treatment of in-stent restenosis

2. **Date of Start of the Project:**
   Date awarded: October 01, 2021.

3. **Aims and Objectives:**
   **Aim:** To develop self-expandable peripheral stent for the treatment of in-stent restenosis.

   **Objectives:**
   1. Development of mTOR inhibitor- biodegradable polymer coating on self -expandable peripheral stents for prolonged release.
   2. Development of nanoparticles based coating on self expandable peripheral stents for release of m TOR inhibitor for over a year
   3. Patenting and technology transfer

4. **Significant achievements (not more than 500 words to include List of patents, publications, prototype, deployment etc.)**
   In first year, we have completed
   1. Identification of m-TOR inhibitor and polymers for peripheral stents
   2. Authentication of Sirolimus and PLGA
   3. HPLC method development and validation (For routine assay and for stability testing)
   4. Optimization of nanocarriers

5. **Concluding remarks**
   The project is going as per the time line. Industry partner has been identified for coating the stents for executing other milestones of the project.