**Appendix A: Detailed JLab report**

**Report Period of Performance:**

7/1/2021 –9/30/2021

**Co-Principal Investigator:**

Riad Suleiman, with Joe Grames and Matt Poelker

**Work-scope Highlights:**

Jefferson Lab’s contribution to this project is to provide a Compton Transmission Polarimeter, which will be used to measure beam polarization when the SRF photogun employs a GaAs photocathode.

**Q4 FY21 Brief summary of activity issues, concerns, successes:**

*Activity successes:*

1. Jefferson Lab Fast Electronics Group is working on the user interface of the data acquisition system.

*Issues and concerns:*

1. Working with BNL to clarify network resources and connections available for the portable data acquisition system.

**Milestones**

1. Completed simulation and design of the Compton polarimeter.

**Budget**

Summary of total expenditures:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  ID #  | **Item/Task**  | **Baseline****Total Cost**(AY$) | **Costed &****Committed**(AY$) | **Estimate****To Complete**(AY$) | **Estimated****Total Cost**(AY$) |
| COMTRA  | Compton Trans Polarimeter | $400,200  | $0  | $400,200 | $400,200  |
|  | Totals: | **$400,200** | **$0** | **$400,200** | **$400,200**  |

*Notes:*

* *Costed and Committed numbers are as of September 30, 2021.*

Summary of expenditures by fiscal year (FY):

|  |  |  |  |
| --- | --- | --- | --- |
|  | **FY 2020** | **FY 2021** | **FY2022** |
| a) Funds allocated | $200,100 | $200,100 | $400,200 |
| b) Actual costs to date  | $0 | $0 | $0 |
| c) Uncosted commitments | $0 | $0 | $0 |
| d) Uncommitted funds  | $200,100 | $200,100 | $400,200 |