d. Equipment

INSTRUCTIONS - PLEASE READ!!!

1. Equipment is generally defined as an item with an acquisition cost greater than $5,000 and a useful life expectancy of more than one year. Please refer to the applicable Federal regulations in 2 CFR 200 for specific equipment definitions and treatment.

2. List all equipment below, providing a basis of cost (e.g. vendor quotes, catalog prices, prior invoices, etc.). Briefly justify items as they apply to the Statement of Project Objectives. If it is existing equipment, provide logical support for the estimated value shown.

3. During award negotiations, provide a vendor quote for all equipment items over $50,000 in price. If the vendor quote is not an exact price match, provide an explanation in the additional explanation section below. If a vendor quote is not practical, such as for a piece of equipment that is purpose-built, first of its kind, or otherwise not available off the shelf, provide a detailed engineering estimate for how the cost estimate was derived.

4. Each budget period is rounded to the nearest dollar.

SOPO Task #	Equipment Item	Qty	Unit Cost	Total Cost	Basis of Cost	Justification of need
				Budget Period 1		
3,4,5	**EXAMPLE!!!** Thermal shock chamber	2	$70,000	$140,000	Vendor Quote - Attached	Reliability testing of PV modules- Task 4.3
3	REDACTED - meters			$2,460,000		Essential equipment required to meet project objectives
3	REDACTED - RF Mesh			$4,490,000		Required communications protocol
3	Fiber cabinets			$36,000		Device storage
3	Radio communication devices			$160,000		Transmits meter data
3	Fiber optic cable			$704,000		Data transfer
3	Make ready - poles			$2,341,000		Upgrading poles for fiber attachment (non-labor expense)
3	Substation security packages			$180,000		pan/tilt cameras and related hardware
	Budget Period 1 Total			$10,371,000		
				Budget Period 2		
3	REDACTED - meters			$7,380,000		Essential equipment required to meet project objectives
3	REDACTED - RF Mesh			$4,490,000		Required communications protocol
3	Fiber cabinets			$27,000		Device storage
3	Radio communication devices			$160,000		Transmits meter data
3	Fiber optic cable			$689,920		Data transfer
3	Make ready - poles			$2,000,000		Upgrading poles for fiber attachment (equipment expense)
3	Substation security packages			$180,000		pan/tilt cameras and related hardware
	Budget Period 2 Total			$14,926,920		
				Budget Period 3		
3	REDACTED - meters			$7,380,000		Essential equipment required to meet project objectives
3	Radio communication devices			$160,000		Transmits meter data
3	Substation security packages			$180,000		pan/tilt cameras and related hardware
				$0		
				$0		
				$0		
	Budget Period 3 Total			$7,720,000		
				Budget Period 4		
3	REDACTED - meters			$7,380,000		Essential equipment required to meet project objectives
3	Radio communication devices			$160,000		Transmits meter data
3	Substation security packages			$198,000		pan/tilt cameras and related hardware
				$0		
				$0		
				$0		
	Budget Period 4 Total			$7,738,000		
				Budget Period 5		
	REDACTED - meters			$3,772,000		Essential equipment required to meet project objectives
	Radio communication devices			$160,000		Transmits meter data
	Substation security packages			$198,000		pan/tilt cameras and related hardware
				$0		
				$0		
				$0		
	Budget Period 5 Total			$4,130,000		
	PROJECT TOTAL			**$44,885,920**		

Additional Explanation (as needed):