Materials and Instruments Sheet

Object	*Category*	*Year of expected purchase*	*Estimated Cost*	
Publication Allocations	Commission	All	$10,000	
Total of Commissions	Commission	All	$10,000	
Heat Shield	Hardware	2	$400,000	
Batery Pack	Hardware	2	$30	
Pan-Tilt Camera Servos 3x	Hardware	2	$60	
Multi-camera module	Hardware	2	$70	
Batteries 3x	Hardware	2	$90	
Solar Panels	Hardware	2	$300,000	
Rover	Hardware	2	$1,500,000	
Total of Hardware	Hardware	2	$2,200,250	
Ribbon Cable 3x	Materials	2	$30	
Heat-sink	Materials	2	$2	
Air bags	Materials	2	$500,000	
Aluminum Honeycomb Supports	Materials	2	$270	
Zylon (480m)	Materials	2	$348	
Ammonium Perchlorate	Materials	2	$94	
Powdered Aluminum	Materials	2	$100	
Kevlar	Materials	2	$242	
Total of Materials	Materials	2	$501,086	
Arducam 3x	Payload	2	$90	
Mini Ground Penetrating Radar	Payload	2	$25,000	
APXS	Payload	2	$2,800,000	
Total of Payload	Payload	2	$3,326,176	
Total			**$5,536,426**	

Sources

Mini Ground Penetrating Radar		http://www.usradar.com/ground-penetrating-radar-cost/		A regular GPR costs about $14,000. We figured factoring in the cost of commission and inflation, it'd be roughly $25,000
Alpha Proton X-ray Spectrometer		https://www.cbc.ca/news/technology/mars-bound-rock-analyzer-a-new-step-for-canada-in-space-1.1007601		The listed total here is $17.8 million. The team assumed the bulk of this figure was development, so $15 million was knocked off.
Solar Panels				
Air bags		https://www.nasa.gov/centers/glenn/about/history/marspbag.html		This article states the pathfinder airbags cost $4 million to develop. The team assumes that an extremely small version of them should be significantly less.