

MPS Mission Budget

Materials/Equipment	Item Cost	# of Items	Total Cost
Communication Systems			
Amplifier (custom specs/space certified + spares)	\$10,000	132	\$1,320,000.00
Antennas (2 per radio, 1 spare)	\$1,000	88	\$88,000.00
RX/TX Radio (FM)	\$1,000	20	\$20,000.00
RX/TX Radio (1.8 GHz)	\$1,400	20	\$28,000.00
DSN RX/TX Radio	\$1,800	4	\$7,200.00
Location Systems			
Martian Rover (containing our GPS Antenna)	\$125,000,000	1	\$125,000,000.00
GPS (1 spare)	\$2,000	2	\$4,000.00
Power Systems			
GaAs Solar Panels (4 per satellite, 2 spares + Rover)	\$8,000	84	\$672,000.00
Rechargeable NiMH/NiCd Batteries (8 per satellite + Rover)	\$500	172	\$86,000.00
Propulsion Systems			
Liquid Hydrogen Fuel (per kg)	\$5.50	480457	\$2,642,513.50
Liquid Oxygen Oxidizer (per kg)	\$0.12	2882748	\$345,929.76
GPS Satellite Launch Vehicle (4 GPS Sat/Launch) - Delta IV Heavy	\$ 150,000,000.00	5	\$750,000,000.00
Mars Rover Launch Vehicle - Delta IV Medium	\$ 70,000,000.00	1	\$70,000,000.00
Supplies			
Tool Kits	\$5,000	20	\$100,000.00
Hardware	\$20,000		\$20,000.00
Aluminum Sheet Metal (Oxidize treated)	\$56,000		\$56,000.00
Foam/Polymer	\$15,000		\$15,000.00
High Performance Space Tape	\$2,000		\$2,000.00
Electrical Wiring	\$2,000		\$2,000.00
Computers	\$2,000	25	\$50,000.00
Computer Equipment	\$5,000		\$5,000.00
Computer Software /Simulation	\$5,000		\$5,000.00
Personnel Costs			
Payroll (average)	\$80,000	40	\$3,200,000.00
Part-time Contract Labor (\$20/hr, 3 weeks, 120 hrs)	\$2,400	100	\$240,000.00
R&D	\$200,000		\$200,000.00
Training	\$100,000		\$100,000.00
Insurance (life/disability/property)	\$150,000		\$150,000.00
Taxes (Government/Remittance/Payroll)	\$300,000		\$300,000.00
Internet Services (NIPR/SIPR)	\$10,000		\$10,000.00
Licensing	\$50,000		\$50,000.00
Security	\$40,000	4	\$160,000.00
Space Resources			
Equipment Certification	\$75,000		\$75,000.00
Launch Site Contract	\$225,000		\$225,000.00
Miscellaneous Costs			
Office Supplies	\$10,000		\$10,000.00
Shredding/Disposal Service	\$10,000		\$10,000.00
Site Use/Rent	\$80,000		\$80,000.00
Network Services/IT Services	\$100,000		\$100,000.00
Domain Services	\$999.74		\$999.74
Professor Durgin Consulting (his two cents)	\$0.02		\$0.02
TOTAL MISSION COST:			\$955,379,643.02