		120	0.0 units	3.636363636		
			34.7 units	of capacity per ton of Hull		
	STAGE 1			3,211.8 MT		
SECTION	COMPONENT	OPTION	**QTY**	**MT**	**COST**	**NOTES**
	ENG (TL 7)	HULL (TL 7)	90.0 units	90.0 MT		
	ENG (TL 7)	LN R-DRIVE (TL 7)	5.0 units	42.5 MT	500 Cr	
	ENG (TL 7)	FUEL	2,286.0 units	2,286.0 MT		
	PLD	Stage 2 and Stage 3	793.3 units	793.3 MT		
	STAGE 2					
SECTION	COMPONENT	OPTION		638.4 MT		
TL 7	SECTION	COMPONENT	**QTY**	**MT**	**COST**	**NOTES**
	ENG (TL 7)	HULL (TL 7)	15.0 units	15.0 MT		
	ENG (TL 7)	OR R-DRIVE (TL 7)	5.0 units	8.5 MT	500 Cr	
	ENG (TL 7)	FUEL	460.0 units	460.0 MT		
	PLD	Stage 3	154.9 units	154.9 MT		
	STAGE 3					
SECTION	COMPONENT	OPTION		154.9 MT		
TL 7	SECTION	COMPONENT	**QTY**	**MT**	**COST**	**NOTES**
	ENG (TL 7)	HULL (TL 7)	0.0 units	0.0 MT		
	ENG (TL 7)	OR R-DRIVE (TL 7)	1.0 units	1.7 MT	100 Cr	
	ENG (TL 7)	FUEL	106.9 units	106.9 MT		
	PLD	Command Module, Servi	46.3 units	46.3 MT		
	SERVICE MODULE					
SECTION	COMPONENT	OPTION		46.3 MT		
TL 7	SECTION	COMPONENT	**QTY**	**MT**	**COST**	**NOTES**
	ENG (TL 7)	HULL (TL 7)	3.6 units	3.6 MT		
	ENG (TL 7)	OR R-DRIVE (TL 7)	1.0 units	0.4 MT	100 Cr	
	ENG (TL 7)	FUEL	18.7 units	18.7 MT		
	PLD	Command Module, Servi	23.6 units	23.6 MT		
	LUNAR DESCENT MODULE					
SECTION	COMPONENT	OPTION		17.9 MT		
TL 7	SECTION	COMPONENT	**QTY**	**MT**	**COST**	**NOTES**
	ENG (TL 7)	HULL (TL 7)	3.6 units	3.6 MT		
	ENG (TL 7)	OR R-DRIVE (TL 7)	1.7 units	1.7 MT	170 Cr	
	ENG (TL 7)	FUEL	8.1 units	8.1 MT		
	PLD	ASCENT MODULE AND	4.5 units	4.5 MT		
	LUNAR ASCENT MODULE					
SECTION	COMPONENT	OPTION		4.5 MT		
TL 7	SECTION	COMPONENT	**QTY**	**MT**	**COST**	**NOTES**
	ENG (TL 7)	HULL (TL 7)	0.1 units	0.1 MT		
	ENG (TL 7)	OR R-DRIVE (TL 7)	0.6 units	0.6 MT	60 Cr	
	ENG (TL 7)	FUEL	2.4 units	2.4 MT		
	PLD	LUNAR SUPPLIES and (	1.4 units	1.4 MT		
	COMMAND MODULE					
SECTION	COMPONENT	OPTION		5.7 MT		
TL 7	SECTION	COMPONENT	**QTY**	**MT**	**COST**	**NOTES**
	ENG (TL 7)	HULL (TL 7)	0.2 units	0.2 MT		
	ENG (TL 7)	HEAT SHIELD	1.4 units	1.4 MT	140 Cr	
	ENG (TL 7)	OR R-DRIVE (TL 7)	0.4 units	0.2 MT	40 Cr	
	ENG (TL 7)	FUEL	0.1 units	0.1 MT		
	PLD	STATION	3.0 units	3.6 MT		
	PLD	PARACHUTE	0.2 units	0.2 MT		

					TOTAL Δv	17.06 km/s
	Qty	**ISP**	**Thrust (kN)**	efflsp	Fueled Mass	Empty Mass
LN R-DRIVE (TL 7)	5	263 sec	6,770	263 sec	3,211.8 MT	793.3 MT
					Gravity	Δv
					9.8	3.60 km/s
	Qty	**ISP**	**Thrust (kN)**	efflsp	Fueled Mass	Empty Mass
OR R-DRIVE (TL 7)	5	421 sec	489	421 sec	638.4 MT	154.9 MT
					Gravity	Δv
					9.8	5.84 km/s
	Qty	**ISP**	**Thrust (kN)**	efflsp	Fueled Mass	Empty Mass
OR R-DRIVE (TL 7)	5	421 sec	489	421 sec	154.9 MT	48.0 MT
					Gravity	Δv
					9.8	4.83 km/s
	Qty	**ISP**	**Thrust (kN)**	efflsp	Fueled Mass	Empty Mass
OR R-DRIVE (TL 7)	5	421 sec	489	421 sec	46.3 MT	23.6 MT
					Gravity	Δv
					9.8	2.78 km/s
	Qty	**ISP**	**Thrust (kN)**	efflsp	Fueled Mass	Empty Mass
Descent Propulsion Sys	1	311 sec	44	311 sec	17.9 MT	9.8 MT
					Gravity	Δv
					9.8	1.83 km/s
	Qty	**ISP**	**Thrust (kN)**	efflsp	Fueled Mass	Empty Mass
Rocketdyne RS-18	1	316 sec	316	316 sec	4.5 MT	2.1 MT
					Gravity	Δv
					9.8	2.35 km/s
	Qty	**ISP**	**Thrust (kN)**	efflsp	Fueled Mass	Empty Mass
RCS	16	290 sec	0.445	290 sec	5.7 MT	5.6 MT
					Gravity	Δv
					9.8	0.05 km/s