

Annex B: Cost Estimates for Infrastructure Rehabilitation

Renovation and Repair of Buildings

Building	Estimated Cost (U.S. Dollars) in 2000
Sea View Dormitory (houses 48 students)	\$300,000.00
Dining Hall Dormitory (houses 36 students)	\$44,461.34
Academic Building	\$36,144.95
 Total in 2000	 \$380,606.29
Administrative Building (to be assessed)	
Proposed Lab Building (to be assessed)	

Water Supply

Item	Cost in \$ U.S.
Digging of well, installation of pipe to tower	Not yet available
Construction of tower, reservoir	Not available
Pipes and plumbing to buildings	Not available

Electrical Power

Item	Cost in \$ U.S.
Forty KVA and 100KVA Generators (2)	\$100,000 [local purchase]
Solar power back-up system (see the attached information)	\$20,000 [from abroad]

Transportation

Item	Cost in \$ U.S.
30 seat Toyota buses(2)	\$80,000
Toyota Landcruiser 4x4	\$30,000
Toyota Hilux Double Cabin 4x4	\$20,000
Toyota Corolla Station Wagon	\$10,000
Total Transportation	\$140,000

Fuel and Maintenance

Item	Detail	Cost in \$ U.S.
Generator	Fuel 1.4 gal/hr x 12 hrs/day x 1095 days (3 years) x \$2.20/gal	\$43,362
Vehicles	30 gal/day x 365 x 3 years x \$2.20/gal	\$72,270
Monthly maintenance of vehicles and generators	\$400/month x 36 months	\$14,400
Total		\$130,032

Perimeter Fence

Completion of perimeter fence

US\$ 100,000.00

Example of Available Solar Panels and Accessories

Tired of kerosene lamps and flashlights when you retreat to your cabin? For less money than you think you can install a fully functional solar electric system in your cabin or weekend home to operate your lights, water pump, small appliances, entertainment and computers. In most parts of the world, solar is actually cheaper than batteries, kerosene or even installing and operating a generator.

Our kits include everything you need to produce and store your own power. Additional options sold separately include: Inverters for AC power, DC appliances (including refrigerators), DC lighting and water pumps. Please call us to discuss the details of what these kits are capable of and what accessories are right for you.

Basic System:

- 75 Watt BP Solar Panels (2)
- SolarMount Uni-Rac
- Solar Boost 2000E Controller
- 6 Volt Deep Cycle Batteries (2)
- Battery Interconnects
- 10/2 Direct Burial Wire (100')

Standard System:

- 75 Watt BP Solar Panels (4)
- SolarMount Uni-Rac
- Combiner Box
- DC Disconnect
- Prostar Controller with LCD
- Golf Cart Deep Cycle Batteries (4)
- Battery Interconnects
- 10/2 Direct Burial wire (100')

Deluxe System:

- 150 Watt BP Solar Panels (3)
- SolarMount Uni-Rac
- Combiner Box
- DC Disconnect
- Solar Boost 50 with display
- Surrrette 350 AH Deep Cycle Batteries (4)
- Battery Interconnects
- 2/0 10' Inverter Cable
- Outback DC Power Center
- 30 Amp Breaker Installed
- 10/2 Direct Burial Wire (100')

Item #	Description	Price	Qty
41-0101	Basic System	\$1,600.00	
41-0102	Standard System	\$2,900	
41-0103	Deluxe System	\$5,000	

400 WATT INVERTER

400 watt 12 volt INVERTER allows you to **run Freezers, Shavers, and many electrical appliances of up to 400 watts off your 12 volt battery!** Simply attach the INVERTER to your 12 volt battery or 12 volt power source and plug in the appliance! Comes complete with the battery clamps to connect directly to the battery, as well as the cigarette lighter plug adapter.

Specifications: 400 watts continuous power - 800 watts surge (peak) power - 90% efficiency - no load draw is only 0.3 amps - input range 10-15 VDC - Under voltage shutdown 10 volts - low voltage alarm at 10.6 volts - modified sine wave - 2 25 amp fuses - dual grounded standard 110 volt receptacles.

(Price not available)