

## OSI Procurement Requirements\*

### Geophysical Techniques

#### 1) Seismographic Equipment

##### Remote seismic stations for local aftershock measurement

- 1a) Seismometers ( Bandwidth, 1-50Hz; 3 component, short period and/or single component vertical)
- 1b) Compact modular Remote Data Logger
- 1c) Power source sufficient for two weeks of operation ( Battery or Solar)

#### 2) Data transfer

- 2a) Physical transfer of data from remote station
- 2b) Flexible Telemetry Systems

#### 3) Central processing site for base camp

- 3a) Custom-packaged
- 3b) Electricity Generator or Thermo-electric unit
- 3c) UPS (Uninterruptable Power Supply) buffers
- 3d) Computer Hardware (with printers)
- 3e) Software for acquisition, storage, processing, interpretation, and vizualization

### Visual Observation Equipment

#### 4) Photographic & video equipment

- 4a) Hand held still cameras ( 35 mm and instant)
- 4b) Film and paper
- 4c) Media for Camera
- 4d) Developer for photographic film
- 4e) Refrigerator
- 4f) Hand-held video camera
- 4g) VCR and monitor
- 4h) High-strength video tape (VHS)

#### 5) Position/location finding equipment

- 5a) GPS (hand-held)
- 5b) Pocket transit
- 5c) Analog altimeter

#### 6) General observation equipment

- 6a) Field glasses
- 6b) Binocular microscopes
- 6c) Hand-held range-finding equipment
- 6d) Measuring tapes
- 6e) Survey rod

## **7) Support Equipment**

- 7a) Drafting equipment
- 7b) Palmtop computer
- 7c) Office supplies
- 7d) Drinking water container
- 7e) Poster board
- 7f) Magnifying glass
- 7g) Hand-held stereoscopic magnifying glass

## **Communication Equipment**

- 8a) Two-way radio
- 8b) SATCOM Communication System

## **Radionuclide Techniques**

### **Radiation Detection & Analysis Equipment**

#### **9) Radiation Detectors**

- 9a) Hand-portable  $\beta/\gamma$  search tool
- 9b) Vehicle-mounted search tool
- 9c) Aerial-mounted search tool
- 9d) HP-Ge (high-resolution) gamma spectrometry system

#### **10) Gas Analysis tools**

- 10a) Xenon separator
- 10b) Blinded HPGe gamma spectrometer system
- 10c) Argon separator
- 10d) Internal gas proportional counting system
- 10e) Radon separator

## **Sampling Equipment**

### **11) General sampling equipment ( non-radio active samples)**

- 11a) Sample container( for solid, liquid and swipe samples)
- 11b) Sampling bag
- 11c) Seals ( and Tags)
- 11d) Geologists' hammer
- 11e) 2-m hand driven soil auger
- 11f) Pointed shovel
- 11g) Hand spade
- 11h) Broad-blade knife (8 cm wide)
- 11i) Hand broom
- 11j) Swipe kit
- 11k) Scoop (trowel)

### **Radionuclide sampling kits**

- 12) Soil sampling kit**
  - 12a) Portable drilling machine
  - 12b) Impact hammer
  - 12c) Polyethylene tarp
  - 12d) Sieves
  - etc.
  
- 13) Liquid sampling kit**
  - 13a) Water pump
  - 13b) Marinelli beaker
  - 13c) Polyethylene jerricans, evacuated glass container (vacutainers)
  - etc.
  
- 14) Particulate (aerosols) sampling kit**
  - 14a) Air pump
  - 14b) Flow rate meter
  - 14c) Filter papers (HEPA filter, active carbon filter, etc.)
  - 14d) Temperature sensors
  - 14e) adsorbants
  - etc.
  
- 15) Gas (atmospheric and sub-surface) sampling kit**
  - 15a) Recycle pump
  - 15b) Flow rate meter
  - 15c) Steel vacuum bottles
  - 15d) Filters
  - 15e) Polyethylene tarp
  - etc.

### **Health & Safety Equipment (Radiation Protection and General Health and Safety)**

- 16) Personal dosimeter**
  - 16a) Film Badges
  - 16b) TLD Badges (b,g & neutron)
  - 16c) Pocket Dosimeters
  - 16d) Dosimeter Charger
  
- 17) Radiation & dose measuring instruments**
  - 17a) Surveymeters
  - 17b) Portable surface contamination measuring instruments
  - 17c) Base camp detection system for gas and particulate radiation
  - 17d) Continuous air monitor
  - 17e) Personnel air monitor

**18) Clothing for protection against radioactive contaminant**

- 18a) Coveralls
- 18b) Respirators
- 18c) Hoods
- 18d) Booties
- 18e) Tapes
- 18f) Gloves

**19) Portable Safety Pack**

- 19a) First-aid kits
- 19b) Emergency shelters
- 19c) Emergency rations
- 19d) 30-m Climbing ropes
- 19e) Flashlights
- 19f) Fire starters
- 19g) Eye/ear protection
- 19h) portable water purification systems( for potable water)

## **OSI General Support Equipment**

**20) Geographic Information System (GIS)**

- 20a) Workstation server
- 20b) Peripheral
- 20c) Software

**21) Electronics trouble-shooting equipment**

- 21a) Oscilloscopes
- 21b) Multi-testers
- 21c) Electronic tool-kits

**22) Portable Weather station (wind, temperature, pressure etc.)**

## **Other Category**

- 23) Advanced Training Courses
- 24) Testing, Evaluation, Calibration and Certification Service for equipment items
- 25) Software modifications, as necessary

**\* Note:** This is a preliminary indicative list of equipment items. Systems or items required in each category will need to meet exacting technical standards . Additionally, among other selection criteria, items or systems to be procured should be capable of operating under field conditions in extreme and harsh environments, be portable, require minimum set-up time, and should, where applicable, have easy user interfaces and require low maintenance. Vendors are requested to indicate whether "high monetary value " items on the list, as applicable, can be provided on lease.

## **ADM Procurement Requirements**

- 1) **Stationery**  
including White Board
  
- 2) **Office Furniture**  
including Filing and Secure Cabinets
  
- 3) **Office Equipment**
  - 3a) Type writers
  - 3b) Calculators
  - 3c) Plain paper copiers
  - 3d) Fax machines
  - 3e) Paper Shredder
  - 3f) Binding System
  - 3g) Laminating machines
  - 3h) Electric Stapler
  - 3i) Slide Projector
  - 3j) Overhead Projector
  
- 4) **Computer hardware & software**
  - 4a) Desktop PCs with associated components
  - 4b) Laptop PCs with associated components
  - 4c) Printers
  - 4d) Scanners
  
- 5) **Audio & Video Equipment**