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|--|------------------------------------|
| <p><b>Gas Geochemistry Laboratory (GASLAB)</b><br/> <b>Soil gas survey costs</b><br/> <i>Person in charge: Dr. Giancarlo Ciotoli</i></p> | <p>Rate (€ net of tax charges)</p> |
|--|------------------------------------|

| Field analyses   | Cost of equipment | Annual amortization rate (3 years) | Annual calibration | Average number of analyses / y | Cost of analyses |
|--|-------------------|------------------------------------|--------------------|--------------------------------|------------------|
| Measurements of CO2, CH4, H2S, H2, O2 concentrations in the soil gas or dissolved in water           | 5.500,00          | 1.833,33                           | 260,00             | 300,00                         | 6,98             |
| Measurement of CH4 concentration by laser spectrometry   | 16.000,00         | 5.333,33                           | 500,00             | 300,00                         | 19,44            |
| Measurement of radon and thoron concentrations in the soil gas or dissolved in water                 | 8.700,00          | 2.900,00                           | 600,00             | 300,00                         | 11,67            |
| Soil CO2 and CH4 flux measurements   | 35.000,00         | 11.666,67                          | 500,00             | 300,00                         | 40,56            |
| Steel sampling probes, connectors and silicone tubes (replenishment of consumable material per year) | 750,00            |                                    |                    |                                | 2,50             |
| <b>Cost of equipment use for in situ analysis (cost per sample)</b>                                  |                   |                                    |                    |                                | <b>81,14</b>     |

| Direct costs  | Daily cost | Cost per sample (considering 10 samples / day) |
|---|------------|--|
| <i>Costs of a specialized technician from the Lazio Region rate table</i> |            |  |
| Personnel - Researcher III  | 350,00     | 35,00  |
| Technical support staff for field work                                    | 200,00     | 20,00  |

**The total cost is determined by the sum of (1) x N.Samples + (2) x N.days + (3)**

| (1) Summary of in situ measurement costs                                       | Survey for Public Research Bodies / Universities | Survey for internal request (-30%) | Survey for third parties (+30%) |
|--|--|------------------------------------|---------------------------------|
| Cost of using equipment for in situ analysis (per sample)                      | 81,14  | 56,80                              | 105,49                          |
| Personnel - Researcher III (per sample)  | 35,00  | 24,50                              | 45,50                           |
| Technical support staff for field work (per sample)                            | 20,00  | 14,00                              | 26,00                           |
| <b>Cost of in situ measurements per sample</b>                                 | <b>136,14</b>                                    | <b>95,30</b>                       | <b>176,99</b>                   |
| <b>(2) Data analysis, mapping elaboration and final report (daily cost):</b>   | <b>400,00</b>                                    | <b>280,00</b>                      | <b>520,00</b>                   |
| Study of the sampling strategy   |  |                                    |                                 |
| Data analysis  |  |                                    |                                 |
| Mapping elaboration  |  |                                    |                                 |
| Reporting  |  |                                    |                                 |
| <b>(3) expenses for travel, handling of equipments, food and accommodation</b> |  |                                    |                                 |