

TENDER COMPARISON
144752 / Gas analyzers

| Gas analyzer | | Sintrol Oy - Hapsite | | Norlab Oy - Torion | | Southern Scientific Ltd - Griffin | | Calculation method |
|---|---|----------------------|-------|--------------------|-------|-----------------------------------|-------|---|
| Life cycle cost (LCC) | | --- | | --- | | --- | | |
| Operational costs when 100 analysis are run per year: The total price of the consumables needed. | 2 | 500 € | 1,280 | 4 265 € | 0,150 | 320 € | 2,000 | $\frac{\text{pienin annettu arvo} * \text{maksimipisteet}}{\text{tarjottu arvo}}$ |
| Operational costs when 100 analysis are run per year: total price of the spare parts needed | 2 | 0 € | 2,000 | 5 089 € | 0,000 | 75 € | 0,000 | $\frac{\text{pienin annettu arvo} * \text{maksimipisteet}}{\text{tarjottu arvo}}$ |
| Operational costs when 100 analysis are run per year: total price of the spare parts needed | 2 | 0 € | 2,000 | 5 089 € | 0,000 | 75 € | 0,000 | $\frac{\text{pienin annettu arvo} * \text{maksimipisteet}}{\text{tarjottu arvo}}$ |
| Periodical maintenance after the warranty period. €/periodical maintenance | 1 | 1 700 € | 0,882 | 1 500 € | 1,000 | 10 000 € | 0,150 | $\frac{\text{pienin annettu arvo} * \text{maksimipisteet}}{\text{tarjottu arvo}}$ |
| Service and faulty repair after the warranty period. €/h | 1 | 120 €/h | 1,000 | 180,93 €/h | 0,663 | 250 €/h | 0,480 | $\frac{\text{pienin annettu arvo} * \text{maksimipisteet}}{\text{tarjottu arvo}}$ |
| Spectra library and operation software updates after the warranty period. €/update | 2 | 0 €/update | 2,000 | 3 363 €/update | 0,000 | 0 €/update | 2,000 | $\frac{\text{pienin annettu arvo} * \text{maksimipisteet}}{\text{tarjottu arvo}}$ |
| Quality assessment | | --- | | --- | | --- | | |
| Field testing | | --- | | --- | | --- | | |
| Adding new substances or agents to the library of the equipment itself. Please provide the maximum size of the library (minimum requirement 150 substances) | 5 | 200 000 | 5,000 | 10 000 | 0,250 | Ei ilmoitettu | 0,000 | $\frac{\text{tarjottu arvo} * \text{maksimipisteet}}{\text{suurin annettu arvo}}$ |
| The analyzer provides the chemical (mixture) components | 5 | Kyllä | 5,000 | Kyllä | 5,000 | Kyllä | 5,000 | Ei=0, Kyllä=5 |
| The analyzer provides the concentration of measurement (ppm or mg/m3) | 3 | Kyllä | 3,000 | Kyllä | 3,000 | Kyllä | 3,000 | Ei=0, Kyllä=3 |
| Hazard substances classification and notification, e.g. health hazard, fire hazard, specific hazard, instability | 2 | Kyllä | 2,000 | Kyllä | 2,000 | Ei | 0,000 | Ei=0, Kyllä=2 |

| | | | | | | | | |
|---|------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--|
| Analyzer reliability : when tested with known substance the analyzer does not give result at all or gives false result. The equipment with the best reliability gets 13 points, all others in proportion to the best reliability . E.g. The equipment A recognizes 35/36 substances and gets 13 points. The equipment B recognizes 20/36 substances and gets 20/35x13 = 7,43 point. | 13 | 14/14 | 13,000 | 10/14 | 9,286 | 14/14 | 13,000 | Manuaalinen |
| Usability of the analyzer in the level A PPE (Personal Protective Equipment) | --- | | | | | | | |
| The usability is tested by a group of several fire fighters who each evaluate the usability in level A PPE. Tenderer's score is the average points given by the group | --- | | | | | | | |
| Usability of the analyzer (start up, using the touch screen, navigation in the menus). 0-5 points. | 5 | | 106 4,609 | | 105 4,565 | | 115 5,000 | <u>pistemäärä * maksimipisteet</u> suurin pistemäärä |
| Doing sampling work (preparing, placing consumables, activating, sampling and running the analysis). | 5 | | 28 4,242 | | 30 4,545 | | 33 5,000 | <u>pistemäärä * maksimipisteet</u> suurin pistemäärä |
| Readability and comprehensibility of the given result | 5 | | 30 4,688 | | 28 4,375 | | 32 5,000 | <u>pistemäärä * maksimipisteet</u> suurin pistemäärä |
| Display resolution. Please indicate the pixels from side to side and from top to bottom (e.g. 640*480). Contracting Authority calculates the product of the pixels. The largest product gets the maximum amount of points. Other tenders get points as follows: product/biggest product*maximum points. | 2 | 340*480 | 0,354 | 640x480 | 0,354 | 1280x720 | 2,000 | <u>tarjottu arvo * maksimipisteet</u> suurin annettu arvo |
| Maintenance and repair services available in Finnish | 2,5 | Kyllä | 2,500 | Kyllä | 2,500 | Ei ilmoitettu | 0,000 | Ei=0, Kyllä=2,5 |
| Technical telephone (see minimum requirements) support available in Finnish | 2,5 | Kyllä | 2,500 | Kyllä | 2,500 | Ei ilmoitettu | 0,000 | Ei=0, Kyllä=2,5 |
| Kokonaishinta yhteensä | 40 | 620 000,00 € | 25,806 | 537 385,00 € | 29,774 | 400 000,00 € | 40,000 | pienin annettu arvo |
| | 100 | | 81,861 | | 69,962 | | 82,630 | ----- * maksimipisteet |
| | | | | | | | | tarjottu arvo |

