**To: PROCESS INNOVATION NUCLEUS S.R.L.**

**C.U.I. 33253778, J52/294/2014**

**Calea București nr. 289, Mihăilești, Judeţul Giurgiu, Romania**

Pre-order

Our Company/University/Institure…………………………………………………… expresses its interest for the acquisition of nanopowders and/or nanopowders producing equipment, if within the 18 to 24 months estimated timeline your company will put on the market the following products at very competitive prices and higher efficiency when comparing with existing solutions:

* very high quality **nanopowders** in respects with the purity, dimensions, shape and granulometric distribution,
* **apparatus for producing nanopowders**,

1. The following nanopowders are of interest for us (the answer is marked with X)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| SiO2 | TiO2 | ZnO | C (e.g. graphite, nanotubes) | CaP (Calcium Phosphates) | ZrO2 | Other nanoparticles |
|  |  |  |  |  |  |  |

1. Should your company produce the nanopowders we are interested in at a price as shown in Addendum 1 and at a quality which we will evaluate at the time of the potential acquisition, we are hereby expressing our interest in collaborating with you for a period of minimum one year. As such, we estimate that our monthly nanopowder requirements are (the answer is marked with X):

|  |  |  |  |
| --- | --- | --- | --- |
| Bellow 1 kg/month | Between 1 kg – 5 kg /month | Between 5 kg – 10 kg /month | Above 10 kg /month |
|  |  |  |  |

1. The medium size of the nanoparticles should be (the answer is marked with X):

|  |  |  |  |
| --- | --- | --- | --- |
| 1-5 nm | 5-10 nm | 10-100nm | >100nm |
|  |  |  |  |

1. The granulometric distribution is important in the case of our nanopowder applications (the answer is marked with X):

|  |  |  |  |
| --- | --- | --- | --- |
| YES, large monodisperse distribution is mandatory | YES, narrow monomodal distribution is mandatory | YES, polymodal distribution is mandatory | Granulometric distribution is not important |
|  |  |  |  |

1. Should you put on the market an apparatus for producing nanopowders (the quality of which we will evaluate at the moment of the potential purchase), we are hereby expressing our interest for the acquisition of one such equipment, which at present moment is evaluated at Euro 350,000 (the basic equipment for producing high quality nanopowders), having an optional set of accessories for producing very high quality nanopowders, which is being evaluated at approx. Euro 90,000[[1]](#footnote-1) (the answer is marked with X):

|  |  |
| --- | --- |
| YES, we are interested in acquiring the equipment | NO, we are only interested in acquiring the aforementioned nanopowders |
|  |  |

**NOTE**: Filing present pre-order does not represent undertaking any kind of commitment for the customer. The actual acquisition of the products to be placed on the market represents exclusively the customer decision.

**First and Last Name:**

**Signature and stamp:**

**Name of the organisation:**

**Addendum 1- Estimated prices for various nanopowders to be produced**

**Maximum estimated prices in Euro, which are considered for various nanopowders to be placed on the market, are as follows:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Quality of**  **Nanopowder** | **SiO2**  ***Estimated price Euro/10g*** | **TiO2**  ***Estimated price Euro/10g*** | **ZnO**  ***Estimated price Euro/10g*** | **C (e.g. graphite, nanotubes)**  ***Estimated price Euro/10g*** | **CaP (Calcium Phosphates)**  ***Estimated price Euro/10g*** | **ZrO2**  ***Estimated price Euro/10g*** | **Other nanopowders e.g.** | |
| **Ag**  ***Estimated price Euro/10g*** | **Au**  ***Estimated price* Euro/10g** |
| **Very high quality nanopowders** | 25 | 40 | 75 | 1.300/graphite  9.000/nanotubes | 220 | 100 | 15.000 | 27.500 |
| **Current market price Euro/10g** | 30 | 46,41 | 85 | 1.500/graphite  10.000/nanotubes | 250 | 134 | 16.500 | 31.000 |
| **High quality nanopowders** | 5 | 20 | 15 | 20/graphite  90/nanotubes | 72 | 50 | 25 | 3.650 |
| **Current market price Euro/10g** | 7,1 | 22,61 | 19 | 23/graphite  100/nanotububes | 82 | 57 | 30 | 4.100 |

***Very high quality nanopowders:*** *Very high quality nanopowders have spherical shape, with particle size ranging in intervals from1-5 nm, 5-10 nm, up to 100nm and purity of approx. 99.9%;*

***High quality nanopowders****: high quality nanopowders have spherical shape, with particle size in the interval 1-100 nm and purity of approx. 99.9%).*

**Note:** These are estimated prices only, having the role of orientating the potential customer in respect to the actual prices of the nanopowders to be placed on the market.

1. The estimated output capacity of the apparatus for producing nanopowders is (depending from density and melting temperature of the input material)*:*

   * ***approx. 5 kg nanopulberi de calitate foarte înaltă/ciclu de productie de aprox. două ore;***
   * ***aprox. 10 kg de nanopulberi de calitate înaltă/ciclu de productie de aprox. doua ore.***

   *Very high quality nanopowders have spherical shape, with particle size ranging in intervals from1-5 nm, 5-10 nm, up to 100nm and purity of approx. 99.9%; high quality nanopowders have spherical shape, with particle size in the interval 1-100 nm and purity of approx. 99.9%).*

   In the case of both nanopowder qualities, the apparatus output capacity varies according to the density of the input materials. [↑](#footnote-ref-1)