



Appendix 1 to the contract notice No ZZ/1334/009/D/2019

**Description of the subject matter of the contract – DND and HPHT nanodiamond powders**

**Part I DND nanodiamond powders and suspensions**

1) Nanodiamond powder with nitrogen centres:

- size of nanodiamond powder: 1um
- weight of powder: 1g
- high concentration of nitrogen centres: above 4ppm

2) Nanodiamond suspension with nitrogen centres:

- size of nanodiamond powder: 140nm
- quantity: 50ml
- high concentration of nitrogen centres: above 3ppm

3) Nanodiamond suspension with nitrogen centres:

- size of nanodiamond powder: 40nm
- quantity: 50ml
- high concentration of nitrogen centres: above 2ppm

4) Nanodiamond powder:

- size of nanodiamond powder: 140nm
- weight of powder: 300g

**Part II: HPHT nanodiamond powders**

1) Nanodiamond Powder:

- weight 100 g
- size of nanodiamond powder: 0.75 -1.25 um
- size median: 1um
- maximum size of crystals: 1.7 um

2) Nanodiamond powder:

- weight 100 g
- size of nanodiamond powder: 0 -0.25 um
- size median: 0.125um
- maximum size of crystals: 0.33 um

3) Nanodiamond suspension:

- weight 1Kg
- size of nanodiamond powder: 0.75 -1.25 um
- size median: 1um
- maximum size of crystals: 1.7 um
- concentration 10% wt. DI Water

4) Nanodiamond suspension:

- weight 1Kg
- size of nanodiamond powder: 0 -0.25 um
- size median: 0.125um
- maximum size of crystals: 0.33 um
- concentration 10% wt. DI Water