**ORDER**

**№ А 387**

**Sofia, 16.09.2019**

**SIMAT JSC**

**CONSTRUCTION TESTING LABORATORY**

Management and Laboratory address:

6401 Dimitrovgrad, kv. Vulkan

**To perform testing of:**

|  |  |  |  |
| --- | --- | --- | --- |
| **№** | **Tested products** | **Type of testing/characteristic** | **Test methods**  **(standart /**  **validated)** |
| 1 | 2 | 3 | 4 |
| 1. | Fine aggregate /sand/ | 1.1. Grain size distribution | БДС EN 933-1 |
| 1.2 Density in bulk | БДС EN 1097-3 |
| 1.3 Fine fraction content  /quantity passed through a 0.063 mm sieve/ | БДС EN 933-1 |
| 2. | Coarse aggregate | 2.1 Grain size distribution | БДС EN 933-1 |
| 2.2 Density in bulk | БДС EN 1097-3 |
| 2.3 Content of fine fraction /quantity passed through a 0,063 mm sieve / | БДС EN 933-1 |
| 3 | Concrete mix | 3.1 Consistency /subsidence/ | БДС EN 12350-2 |
| 4 | Concrete | 4.1 Compressive strength | БДС EN 12390-3 |
| 4.2 Frost resistance:  4.2.1 Weight loss;  4.2.2 Loss of compressive strength | БДС EN 206 / NA,  NA.0.1 |
| 5 | Reinforced concrete  centrifugal pillars for:  - low voltage electrical networks (1);  - 20 kV power lines (2);  - electrification of railways (3) | 5.2 Surface /unevenness/:  5.2.1 Diameter  5.2.2 Depth | БДС EN 12843 –  item 5.2.1 (1.2.3) |
| 5.3 Geometric dimensions:  5.3.1 Length, L  5.3.2 Diameter of the tip, d  5.3.3 Diameter of the base, D | БДС EN 12843 –  item 5.2.2 (1.2.3) |
| 5.4. Elasticity:  5.4.1 Bending with peak force, F1  5.4.2 Elastic deviation, f1  5.4.3 Bending with operational peak force, F2  5.4.4 Elastic deviation, f2  5.4.5 Residual deformation from peak force bending, F2  5.4.6 Peak force bending, F3≥F2 x l.3  5.4.7 Elastic deviation, f3  5.4.8 Residual deformation from peak force bending, F3  5.4.9 Width of the crack from peak force bending, F3 | БДС EN 12843  - item 5.5.2 (1.2.3) |
| 5.5 Carrying capacity, | БДС EN 12843  - item 5.5.3 (1.2.3) |
| 5.6 Twisting, Mt | БДС EN 12843  - item 5.5.4 (1.2.3) |
| 6 | Industrial  centrifugal foundations | 6.2 Geometric dimensions:  6.2.1 Length, L  6.2.2 Inner diameter, d  6.2.3 Depth of the cup, N | БДС EN 13369  - item 5.2 |
| 6.3 Surface - recess | БДС EN 13369  - item 5.2 |

**Including to perform sampling of:**

|  |  |  |
| --- | --- | --- |
| **№** | **Name of product** | **Sampling method (sampling)** |
| 1 | 2 | 3 |
| 1 | Concrete mix | БДС EN 12350-1 |