

ANNEX 1 GENERAL DESCRIPTION OF THE CONTRACTING AUTHORITY AND THE OBJECT OF THE CONTRACT

1. DESCRIPTION OF THE CONTRACTING AUTHORITY

The Contracting Authority is Nivalan Teollisuuskylä Oy (Nivala Industrial Park) (Business Identity Code: 0186733-5, VAT-number: FI01867335). Primary function of the contracting authority is to build and rent industrial premises for enterprises as well as to develop economic life by development projects with partners. The procurement of Me3Lab/3DM is part of a development and investment project. During this project Contracting Authority's partner is Oulu Southern Institute of Oulu University with Future Manufacturing Research group. Investment launching is executed by co-operation projects "3D printing laboratory for metal manufacturing (Me3Lab)" development (A71640) and investment (A71642). Investment will be located in ELME Studio laboratory area in Nivalan Teollisuuskylä Oy. Projects will be founded by Council Of Oulu Region European Regional Development Fund.

2. BACKGROUND OF THE CONTRACT / CONTEXT OF THE CONTRACT

The goal of Me3Lab project is to enforce Nivala ELME studio environment and therefore Nivala Industrial Park and Oulu Southern Institute of Oulu University with Future Manufacturing Research group in cooperation are serving areas companies in implementing latest manufacturing technologies. Therefore the project improves competitiveness of the companies. At the investment part of the Me3Lab project a 3D metal additive manufacturing machine using Selective Laser Melting technology (SLM) is bought to Nivala Industrial Park and the development part of the project is concentrated on realization of the investment and to the applied research and demonstrations. The focus of research is on the special materials, technical suitability and cost effectiveness on the areas products as a main and additional manufacturing method.

2. DESCRIPTION OF THE TARGET

The target of the procurement of a 3D metal additive manufacturing machine using Selective Laser Melting technology (SLM) (Me3Lab/3DM). The procurement of Me3Lab/3DM makes possible to manufacture features that are not possible to do with conventional manufacturing methods, such as milling and turning. As an example of such features like shell, honeycomb, net, corkscrew cooling channels, chambers within a piece, cone channels, asymmetric features etc. The machine also allows to manufacture mechanisms and to combine multiple parts as a one part. Within the project a latest technology environment is built on Nivala ELME Studio that uses metallic additive manufacturing and supports conventional manufacturing methods. The special know-how helps companies on exporting their products. Due to the fact that this is the first machine at its production size it gives competitive advantage to areas companies for several years. The delivery of the Me3Lab/3DM should have a separate unit for handling ready parts safely i.e. so that the powder or other things do not compromise anybody's health. The detailed description of the requirements concerning Me3Lab/3DM is in Annex 2.