

## Description of the Project and planned effects

**Project no. POIR.01.02.00-00-0204/17**

**Value of the Project – 8 662 811.39 PLN**

**European Fund contribution – 3 746 986.77 PLN**

Creation of innovative thermomechanical rolling technology of microalloyed steel necessary for development of innovative long products providing unique combination of mechanical and technological properties with focus on high yield strength of 355-700 MPa and impact toughness guaranteed down to a temperature of -40°C

The CMC Poland's sp. z o.o. with its seat in Zawiercie (CMC, CMC Poland, the Company) Project objective is to perform R&D works aiming at development of globally innovative, complex technology of manufacturing steel bars: round, flat and rebars of unique combination of mechanical and technological properties (Project). Considering consecutive stages of steel bars production process, including dependences between them, the Project will cover development and verification of technological assumptions in scope of steelmaking in electric arc furnace (EAF) and secondary refining, as well as the thermomechanical rolling process. Research will cover steel grades, pertaining to which a significant market demand has been identified.

By development of the globally unique technology with the use of specific micro-additives it will be possible to manufacture steel bars of six levels of yield strength within the range 355-700 MPa and increased impact strength guaranteed down to a temperature of -40°C, not achievable using conventional technology. New products will be addressed mainly to manufacturers of truck trailers and anchors used in mining.

The Project will be realised from 2.04.2018 to 30.11.2020 and have been divided into 4 packages, out of which 2 were classified as industrial research and the remaining 2 as experimental development works. Industrial research will be performed by a subcontractor – AGH, while experimental development works – by CMC qualified staff.