DGR no. 1234 of 10 October 2023, MISSION 2 COMPONENT 1: Green revolution and ecological transition - Circular economy and sustainable agriculture.

INVESTMENT 2.3: Innovation and mechanisation in the agricultural and food sector

SUBSECTION: Modernisation of oil mills.

Project title: 'Innovative investments to optimise oil mill performance'.

Application No.: 5782813

CUP Code: B82H24004610007

Beneficiary : OLEIFICIO CISANO S.R.L. UNIPERSONALE

Tax Code/V.A.T Number . 00785050238

Registered office: VIA PESCHIERA 54, FRAZIONE CISANO, 37011 BARDOLINO (VR)

Description of operation: Replacement of the three-phase extraction system with a new two-phase system.

Aims: The replacement of the plant aims to improve the efficiency, quality and sustainability of the oil extraction operations, meeting the oil mill's needs for competitiveness and environmental respect. More precisely, the purposes of the investment are as follows:

- **Refining extraction efficiency:** two-stage technology allows for a more complete and faster extraction of oil, reducing processing time per unit of product and increasing overall extraction yields.
- **Process optimisation and greater operational simplicity:** the two-stage configuration simplifies the extraction process, making it easier to control and manage the plant, reducing the risk of errors and improving the quality of the final product.
- **Reduced environmental impact:** the system, being made more efficient, generates less waste and by-products, reducing overall energy consumption and decreasing the production of non-recoverable waste.

- **Adaptation to regulations and market requirements:** the new plant responds to the demands of a market oriented towards higher quality products and more sustainable production methods.

- **Improved quality of the extracted oil:** the two-stage technology reduces oxidation and the loss of components with valuable organoleptic properties, ensuring a higher quality, purer oil with a longer shelf-life.

Results obtained: By replacing obsolete machinery with more technologically advanced and sustainable machinery, the beneficiary highlights the following results:

- Reduction of operating costs related to maintenance, plant management and energy consumption. These cost reductions can be traced back to:

- Reduced costs for maintenance and replacement of plant components: the material in contact with the product is stainless steel. Parts subject to wear and tear, such as the screw, inlet diffuser and pomace outlet bushings, are coated with wear-resistant material that significantly extends the life of the constituents, which are naturally subject to a progressive loss of material.

- **Increased energy efficiency** of the plant.

- Increased shelf-life of the oils produced as the extracted oil improves;

- Reduction in the amount of waste produced overall, with associated reduction in disposal/management costs;

- Greater standardisation and quality of the finished product meets the expectations of customer-clients who then brand their own oil from the milling of their own olives. The possibility of electronically controlling the drum revolutions and the differential revolutions of the screw makes it possible to implement batch milling: the oil of each individual batch is easily separated from that of the others and identified with the owner. In this way, each batch is allocated its oil yield and milling cost to the customer.

Eligible expenditure : 120.000,00 €

Contribution: 78.000,00 €